MRO Products OEM Adhesives









GOT CRACKS?

Fix them with **FLOOR SAVERS**[™] **CONCRETE CRACK REPAIR**

This self-leveling product fills cracks and gaps in concrete – *QUICKLY* and *EASILY*.

Fits in standard caulking gun!

Walking traffic in 30 minutes



Forklift traffic in 1 hour

ORDER INFORMATION

| DESCRIPTION | PART NO. | SIZE |
|------------------------------------|----------|-----------------|
| FLOORSAVERS™ Concrete Crack Repair | 13400 | 250ml cartridge |
| Mix Nozzle | 14298 | |

NEWIS





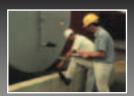




Contents **OEM Adhesives** 4 **OEM Adhesive Selector Guide** 5 **Epoxy Adhesives** 6 **Urethane Adhesives** 9 **Methacrylate Adhesives** 10 UV Light-Cured Adhesives 12 Cyanoacrylates/Instant Adhesives 14 **Dispensing Systems** 15 **Assembly & Repair** 16 Threadlockers: Liquid 17 Threadlockers: Gel 19 **Retaining Compounds** 20 Thread Sealants 21 23 **Specialty Adhesives** 24 Gasket Makers **Castable Urethanes** 28 Rubber Repair: Urethanes 30 32 **MRO Repair Products MRO Product Selector Guide** 33 Surface Preparation 34 Metal Repair: Putties 36 Metal Repair: Liquids and Metal Casting Compounds 38 Abrasion-Resistant Wearing Compounds 40 Flooring Product Selector Guide 42 **Flooring Products** 43 **Emergency Repair** 45 Anti-Seize and Lubricants 46 **Gasket Sealants** 47 Specialty Maintenance 47 Hand Cleaners 48 Indexes Item Number 50 MSDS / Warranty 51











Total Adhesive Solutions Carefully Matched or Custom Formulated to Your Application

Because ITW Devcon offers a full range of high-performance adhesives, we will never force your application to fit our technology. Through our national network of distributors, we will work with you to assess your adhesive requirements. Our experienced application specialists will then recommend a total adhesives solution including the best adhesive for your needs, along with the right dispensing system. If desired, we will also supply bonded samples and test results, as well as training and support.



Devcon and Permatex® OEM Adhesives include:

- ▼ High-strength, fast-curing epoxies
- Advanced methacrylates for bonding plastics, composites, metals and dissimilar substrates
- Instant-curing cyanoacrylates that eliminate the need for fixturing
- Chemical-resistant, MIL-SPEC threadlockers, retaining compounds and pipe sealants
- UV adhesives with unlimited open times and rapid light curing
- Specialty adhesives custom engineered for specialized applications

All these adhesives are available in a variety of package sizes including convenient, no-waste, mix-as-dispensed dual cartridges.













OEM Adhesive Selector Guide

KEY: ● Excellent Choice 🚺 Good Choice 🔘 Requires Metal Prep 90™ Blank - Not Recommended

| | OEM Material | One Minute™ Epoxy Gel | 5 Minute™ Epoxy / Epoxy Gel | Dev-Thane™ Adhesives | 10 Minute™ Epoxy | 2 Ton® Clear Epoxy | Epoxy Plus™ 25 | HP 250 | Plastic Welder™ | Plastic Welder™ II | Flex Welder™ Adhesives | Composite Welder™ FS | Metal Welder™ Adhesives | ZipGrip® Adhesives | UV Adhesives |
|---------|-----------------------------|-----------------------------|-----------------------------------|-------------------------|---------------------|--------------------------|-------------------|--------|--------------------|-----------------------|---------------------------|-------------------------|----------------------------|-----------------------|-----------------|
| | Aluminum 1 | | | | | | | | 0 | 0 | 0 | 0 | | | |
| | Brass | | | | | | | ۲ | | | | | | O | |
| | Cast Iron | | | | | | | | 0 | | | 0 | • | | |
| | Copper | | | | | | | | | | | | | | |
| | Ferrite | | | | 0 | | | | | | | | | | |
| METAL | Painted metals | | | | 0 | | | | | | | | | | |
| | Plated metals | | | | 0 | | | | | | | | | • | |
| | Sheet metal | | | | 0 | | | • | | | | | | | |
| | Stainless steel 1 | | | | ۲ | | | | 0 | 0 | 0 | 0 | | | |
| | Cold rolled steel | | | • | | | | • | | • | • | | | • | |
| | Galvanized | | | | | | | | | | 0 | 0 | | | |
| | ABS | | | | 0 | | | | | ۲ | | | | 0 | |
| | Acrylics (PMMA) | | | | 0 | | | | | | | | | • | |
| | Fiberglass | | | | | | | • | | | | | | • | |
| | Gel coats | | | | | | | | | | | | | | |
| | Ероху | • | | | | | | • | | | | | | • | |
| | Polyamides (Nylon) (6,6/6) | | | | | | | DO | | | | 0 | 0 | | |
| | Polyesters (PET/PBA blends) | | | | | | • | O | | • | | | | | |
| | Polycarbonate | | | | | | | • | | | | | | • | |
| 9 | PPO and PPO blends | | | | | | | | | | | | | | |
| PLASTIC | Vinyls (PVC) | | | | 0 | • | | | | | | | | | |
| | RIM urethanes | | | | | | | | | | | | | | |
| | SMCs | | | | | | | | | | | | | | |
| | Styrene resins | | | | | | | 0 | | | | | | | |
| | Polyacrylate | | | | | | | | | | | | | | |
| | Polyurea | | | | | | | | | | | | | 0 | |
| | Cellulosics (CAL, CAB, CAP) | | | | | | | | | | | | | | |
| | Polysulfone | | | | | | | | | | | | | • | |
| | Phenolics | | | | | | | | | | | | | | |
| | Laminates | | | | | | | | | | | | | • | |
| | Wood (hard and soft) | | | | ۲ | | | | 0 | | 0 | 0 | 0 | 0 | |
| | Plywood | • | | • | • | | • | | 0 | | | | | | |
| | Particle board | | | | ۲ | | ۲ | | 0 | | 0 | 0 | 0 | | |
| | Brick | | | | | | | | | | | | | | |
| | Concrete | | | | | | | | | | | | | | |
| OTHER | Rubber | | | | | | | | | | | | | | |
| 5 | Honeycomb | | 0 | | 0 | 0 | | | | | | | | | |
| | Ceramics | 0 | | | | 0 | | | | | | | | | |
| | Glass | | | | | | | | | TM | | | | | |

NOTES: 1 Use of Metal Prep 90[™] primer/cleaner is recommended on these metals prior to bonding with Plastic Welder, Plastic Welder, I. Flex Welder, and Composite Welder, FS.











5

EPOXY ADHESIVES

2-Part Structural Epoxy Adhesives

Devcon advanced epoxy adhesives are used for structural bonding, potting and encapsulating, and come in a variety of cure times and package sizes.

Devcon® 5 Minute® Epoxy

Rapid-curing, general-purpose adhesive/encapsulant.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|-------------------------------------|----------------|
| 14250 | 25 ml Dev-Tube™ | _ | — |
| 14270 | 50 ml cartridge | 14280 (manual) | 14285 |
| 14210 | 2.5 oz | _ | — |
| DA051 | 400 ml cartridge | 14410 (manual) 14400 (pneumatic) | 14292 14292 |
| 14200 | 15 oz | _ | — |
| 14630 | 9 lb | — | — |
| DA032 | 10 gal kit | — | _ |
| DA007 | 100 gal kit | _ | — |

Devcon® 5 Minute® Epoxy Gel

Thixotropic, nonmigrating gel adhesive with excellent gap filling properties.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|-------------------------------------|----------------|
| 14240 | 25 ml Dev-Tube™ | _ | _ |
| 14265 | 50 ml cartridge | 14280 (manual) | 14285 |
| DA052 | 400 ml cartridge | 14410 (manual) 14400 (pneumatic) | 14292 14292 |

Devcon[®] One Minute[™] Epoxy Gel

Lightning fast curing gel adhesive for filling gaps, cracks and holes.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------|----------------|--------|
| 14277 | 50 ml cartridge | 14280 (manual) | 14285 |

Devcon[®] 10 Minute[™] Epoxy

Flexible epoxy provides excellent adhesion to metals and superior peel, impact and chemical resistance.

| Item # | Container Size | Dispenser | Nozzle |
|----------------|--|-------------------------------------|----------------|
| 14251 14255 | 50 ml cartridge <i>(clear)</i> 50 ml cartridge <i>(black)</i> | 14280 (manual) | 14285 |
| DA012 | 400 ml cartridge (black) | 14410 (manual) 14400 (pneumatic) | 14292 14292 |

Devcon® 2 Ton® Clear Epoxy

Extremely strong, medium-cure, water-resistant adhesive.

| ltem # | Container Size | Dispenser | Nozzle |
|--------|------------------|-------------------------------------|----------------|
| 14310 | 25 ml Dev-Tube™ | _ | _ |
| 14260 | 50 ml cartridge | 14280 (manual) | 14285 |
| 14355 | 400 ml cartridge | 14410 (manual) 14400 (pneumatic) | 14292 14292 |
| 14360 | 9 lb | _ | _ |

Devcon[®] Epoxy Plus[™] 25

Rubber-toughened structural adhesive with superior peel, impact and fatigue resistance.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|---------------------------------------|----------------|
| 14278 | 50 ml cartridge | 14280 (manual) | 14285 |
| 14350 | 400 ml cartridge | 14410 (manual) 14400 (pneumatic) | 14293 14293 |

Devcon® HP 250

High-performance, toughened structural adhesive with outstanding environmental, impact and chemical resistance.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|---------------------------------------|----------------|
| 14315 | 50 ml cartridge | 74001 (manual) | 14285 |
| 14415 | 400 ml cartridge | 14410 (manual) 14400 (pneumatic) | 14292 14292 |

Devcon[®] HP 250Q

High-performance epoxy with high shear strength and impact toughness. Bonds to metals, FRP/SMC composites, stainless steel, aluminum, vinyl esters, nylon, wood and rigid plastics.

| Item # | Container Size | Dispenser | Nozzle |
|--------|------------------|-------------------------------------|----------------|
| 14417 | 400 ml cartridge | 14410 (manual) 14400 (pneumatic) | 14292 14292 |



Indicates that either the manual or pneumatic dispenser listed to the right may be used with that size cartridge.











|--|

| Physical Properties | 5 Minute® Epoxy | 5 Minute® Epoxy Gel | One Minutë [™] Epoxy Gel | 10 Minu | të Epoxy | 2 Ton® Clear Epoxy | Epoxy Plus™ 25 | HP 250 | HP 250Q |
|---|-----------------|---------------------|-----------------------------------|---------|----------|--------------------|----------------|-----------|---------------|
| Color | Clear | Opaque | Clear | Black | Clear | Clear | Grey | Straw | Straw |
| Mix ratio resin: hardener | 1:1 | 1:1 | 1:1 | 1:1 | 1:1 | 1:1 | 1:1 | 2:1 | 2:1 |
| Mixed viscosity cP | 10,000 | Gel | 70,000 | 90,000 | 80,000 | 8,000 | 70,000 | 105,000 | 77,000 |
| Working time ¹ minutes | 3 ~ 6 | 4 ~ 7 | 45 sec | 10 | 10 | 8 ~ 12 | 25 | 65 | 30 |
| Fixture time ² minutes | 10 ~ 15 | 10 ~ 15 | 1 | 20 | 20 | 30 ~ 35 | 3.5 hours | 5 hours | 3 ~ 3.5 hours |
| Functional cure hours | 0.75 ~ 1 | 0.75 ~ 1 | 0.5 ~ 0.75 | 1.5 | 1.5 | 2 | 24 | 24 | 12 |
| Adhesive tensile lap shear (ASTM D1002) ³ psi | 1,900 4 | 2,500 | 1,600 4 | 2,400 | 2,400 | 2,250 | 2,750 | 3,200 | 850 |
| Tensile elongation % | 1 | 1 | 1 | 5 | 5 | 1 | 20 | 25 | 36 |
| Peel strength pli | 2 ~ 3 | 2 ~ 3 | 2 ~ 3 | 20 ~ 25 | 20 ~ 25 | 2 ~ 3 | 20 ~ 25 | 35 ~ 40 | 45 |
| Impact resistance ft-lb/in ² | 5.5 | 6.5 | 4.5 | 10 | 10 | 6.5 | 10 | 12 | 9.15 |
| Maximum dry service temperature <i>°F</i> | -40 ~ 200 | -40 ~ 200 | -40 ~ 200 | -67~200 | -67~200 | -40 ~ 200 | -40 ~ 200 | -67 ~ 250 | 250 |

NOTES: ¹ The maximum allowable time to mate and position parts after mixing and application of the adhesive. After this interval, parts must not be disturbed. ³ All tensile strength data per ASTM D1002 on grit-blasted steel, bond line thickness of 0.010". ² The time required for the adhesive to generate sufficient bond strength to allow parts to be handled without deformation of the bond line. ⁴ Bond line thickness of 0.005".

| | | | | | | Key: 🕒 Exceller | t 💽 Very Good | 🔿 Fair 🛛 🛇 Poor |
|---|-----|-----|-----|-----|--------|-----------------|---------------|-----------------|
| Chemical Resistance | | | | | | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% | 000 | 000 | 000 | 000 | 000 | 000 | 0 0 | • • • |
| ALCOHOLS Glycol Isopropanol Methanol | 000 | 000 | 000 | 000 | 0 0 | 00 | • 0 0 | • • • |
| <mark>KETONES</mark> Acetone Methyl ethyl ketone | 00 | 00 | 00 | 00 | 00 | 00 | 0 | 00 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | 0 | 00 | 00 | 0 | 0 | 0 | • | 0 |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits Motor oil | : | : | : | 0 | | 0 | 0 • • | 0 |
| CHLORINATED HYDROCARBONS Perchloroethylene | 0 | 0 | 0 | 0 | 0 | 0 | Ð | Ð |
| SALTS Sodium chloride Trisodium phosphate | 00 | 00 | 0 | 0 | D D | 0 | D D | • |











EPOXY ADHESIVES

| Devcon® Food | Grade Pot & Seal |
|---------------------|------------------|
|---------------------|------------------|

An epoxy potting compound acceptable for meat and poultry plants. It is ideal for bonding filter screens to frames.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|----------------|--------|
| DA999 | 400 ml cartridge | 15043 (manual) | 15047 |

Devcon® 5-Minute® I-FR

Flame retardant, non-brominated, antimony free, 5-Minute® 2-component epoxy paste. Ideal for applications requiring a self-extinguishing structural epoxy system. UL94V-0 approval and RoHS compliant.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|----------------|--------|
| 14272 | 50 ml cartridge | 14280 (manual) | 14285 |

Devcon[®] 10-Minute[™] I-FR

Flame retardant, non-brominated, antimony free, 10-Minute[™] epoxy with impact resistance. 2-component epoxy paste. Non-sag, structural epoxy for potting inserts and edge sealing. UL94V-0 approval and RoHS compliant.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------|----------------|--------|
| 14258 | 50 ml cartridge | 14280 (manual) | 14285 |

| | Food Grade | | |
|---|------------|--------------------|-----------------|
| Physical Properties | Pot & Seal | 5-Minute® I-FR | 10-Minute™ I-FR |
| Color | White | White | White |
| Mix ratio resin: hardener | 4:1 | 1:1 | 1:1 |
| Mixed viscosity cP | 100,000 | 55,000 | 150,000 |
| Working time ¹ minutes | 42 @ 75°F | 4 - 6 | 10 |
| Fixture time ² minutes | 10 @ 200°F | 10 ~ 15 | 20 ~ 25 |
| Functional cure hours | 25 @ 200°F | 1 | 3 |
| Adhesive tensile lap shear (ASTM D1002) ³ psi | 1,980 | 1,430 ⁴ | 2,700 |
| Tensile elongation % | 1 | 1 | 5 |
| Peel strength pli | 2 ~ 3 | 2 | 15 |
| Impact resistance ft-lb/in ² | 5.2 | 5 | 8 |
| Maximum dry service temperature 'F | -40 - 280 | -40 - 200 | -67 - 200 |

Flame Retardant

NOTES: 1 The maximum allowable time to mate and position parts after mixing and application of the adhesive. After this interval, parts must not be disturbed. ² The time required for the adhesive to generate sufficient bond strength to allow parts to be handled without deformation of the bond line.
 ³ Per ASTM D1002 on grit-blasted steel, bond line thickness of 0.010".
 ⁴ Bond line thickness of 0.005".

| Key: Excellent | Nery Good | O Fair | O Poo | r | |
|---|-----------|--------|-------|-----|--------|
| Chemical Resistance | | | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% | | 000 | | 000 | 000 |
| ALCOHOLS Glycol Isopropanol Methanol | | • | | 000 | 0 0 |
| KETONES Acetone Methyl ethyl ketone | | 00 | | 0 | 00 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | | : | | 80 | 0 |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits Motor oil | | : | | : | 0 |
| CHLORINATED HYDROCARBONS Perchloroethylene | | 0 | | 0 | 0 |
| SALTS Sodium chloride Trisodium phosphate | | : | | 0 | 00 |

| Indicates that either the manual or pneumatic dispenser listed to the right may be used with that size cartridge.











URETHANE ADHESIVES

URETHANE ADHESIVES

Urethane Adhesives

Devcon urethane formulations are primerless adhesives that bond metals, plastic, galvanized metal and other hard-to-bond substrates. They offer rapid curing and exceptional flexibility.



Devcon[®] Dev-Thane[™] 5

Primerless, fast-setting, two-part urethane adhesive for high-performance bonding of a variety of substrates such as aluminum, steel, ABS, urethane and composites.

| Item # | Container Size | Dispenser | Nozzle |
|--------|------------------|-------------------------------------|----------------|
| 14503 | 50 ml cartridge | 14280 (manual) | 14285 |
| 14500 | 400 ml cartridge | 14410 (manual) 14400 (pneumatic) | 14293 14293 |

Devcon[®] Dev-Thane[™] 2

Faster-curing version of Dev-Thane $^{\text{\tiny M}}$ 5 with a fixture time of 20 minutes.

| Item # | Container Size | Dispenser | Nozzle |
|--------|---------------------------------|---------------------------------------|----------------|
| 14501 | 50 ml cartridge (light grey) | 14280 (manual) | 14285 |
| 14510 | 400 ml cartridge (dark grey) | 14410 (manual) 14400 (pneumatic) | 14293 14293 |

Devcon® Rubber Adhesive

Industrial-strength rubber adhesive for flexible, durable bonds to rubber, flexible plastics, metals, glass and ceramics. Solvent-based, one-component contact adhesive that cures in 30 minutes and lasts for years. It has outstanding resistance to oils, acids and alkalis. Flexible, waterproof and UV-resistant. Excellent aging and weathering properties.

| Item # | Container Size |
|--------|----------------|
| 14900 | 1 pt |

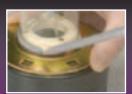
| Physical Properties | Dev-Thane™ 2 | Dev-Thane™ 5 |
|---|-----------------------|--------------|
| Color | Light Grey, Dark Grey | Grey |
| Mix ratio resin: hardener | 1:1 | 1:1 |
| Mixed viscosity cP | 100,000 | 45,000 |
| Fixture time minutes | 20 | 45 |
| Working time minutes | 2 | 5 |
| Peel strength pli | 60 ~ 75 | 60 ~ 75 |
| Functional cure ¹ hours | 1.5 | 4 |
| Tensile Elongation % | 200 | 200 |
| Cured hardness (ASTM D2240) Shore D | 63 | 63 |
| Adhesion Tensile Lap Shear (ASTM D1002) <i>psi</i> | 1,890 | 1,940 |

NOTES: ¹ Faster cure times can be achieved by heating.

| | | Key: Contraction Key: | ent 💽 Very Good | 🔘 Fair 🛛 🛇 Poor |
|---|--------|-----------------------|-----------------|-----------------|
| Chemical Resistance | | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% | 0 | | | 0 |
| ALCOHOLS Glycol Isopropanol Methanol | 000 | | | 0 ● 0 |
| KETONES Acetone Methyl ethyl ketone | 0 0 | | | 0 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | : | | | • |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits Motor oil | 00 | | | • |
| CHLORINATED HYDROCARBONS Perchloroethylene | 0 | | 1 | 0 |
| SALTS Sodium chloride Trisodium phosphate | 0 | | | 0 |











2-Part Structural Acrylic Adhesives

Advanced methacrylate adhesives produce tough, flexible bonds on today's hard-to-bond plastics, composites, exotic metals and dissimilar substrates.

Devcon[®] Plastic Welder[™]

Toughened adhesive for high strength load-bearing bonds to engineered plastics, metals, composites, ceramics and dissimilar substrates. Approved under UL 746C Polymeric Adhesive Systems, Electrical Equipment - Component. SAMS listed.

| Item # | Container Size | Dispenser | Nozzle |
|-----------|-------------------------------------|-------------------|--------|
| 14300 | 25 ml Dev-Tube [™] (straw) | _ | _ |
| 14320 | 47 ml cartridge (straw) | 14280 (manual) | 14285 |
| DA291 | 47 ml cartridge (white) | | |
| DA290 | 47 ml cartridge (black) | | |
| 14385 | 400 ml cartridge (straw) | 14410 (manual) | 14292 |
| DA160 | 400 ml cartridge (white) | 14400 (pneumatic) | 14292 |
| DA295 | 400 ml cartridge (black) | | |
| 14330 | 2 liter kit (straw) | _ | _ |
| DA033/034 | 10 gal kit (straw) | _ | _ |
| 14388/143 | 89 10 gal kit <i>(black)</i> | _ | — |
| DA309/307 | 100 gal kit (straw) | _ | _ |
| | | | |

Devcon[®] Plastic Welder[™] II

Formulated for difficult-to-bond engineered plastics such as nylon-based alloys, epoxy composites and modified polyesters.

| Item # 14340 | Container Size 47 ml cartridge (straw, black or white) | Dispenser 14280 (manual) | Nozzle 14285 |
|------------------------|---|------------------------------------|------------------------|
| 14390 | 400 ml cartridge <i>(straw)</i> | 14400 (pneumatic, | 14292 |
| 14386/14 | 387 10 gal kit <i>(straw)</i> | — | — |

Devcon[®] Composite Welder[™] FS

Flexible adhesive for bonding composites, thermoplastics and thermosets. Fast fixture and cure times; superior impact and fatigue resistance. Approved under UL 746C Polymeric Adhesive Systems, Electrical Equipment - Component. SAMS listed.

| Item # | Container Size | Dispenser | Nozzle |
|-----------|-------------------------------|-------------------|-------------|
| 14165 | 490 ml cartridge (blue green) | Contact Devcon Te | ech Service |
| 14166 | 490 ml cartridge (black) | Contact Devcon Te | ech Service |
| DA461/462 | 10 gal kit | _ | _ |

Devcon® Flex Welder™

Fills gaps to 3/8" and provides exceptionally flexible bonds to plastics, composites and metals in applications involving constant flexing, shock or vibration.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------|----------------|--------|
| 14345 | 47 ml cartridge | 14280 (manual) | 14285 |

Devcon[®] Flex Welder[™] FC

Fast-curing version of Flex Welder[™], Flex Welder[™] FC has a fixture time of 11 minutes and achieves functional cure in one hour.

| Item # | Container Size | Dispenser | Nozzle |
|--------|------------------------------|----------------|--------|
| 14324 | 400 ml cartridge (off-white) | 14410 (manual) | 14292 |

Devcon[®] Metal Welder[™]

High-performance structural adhesive formulated to bond a wide range of metals including: aluminum, stainless steel, cold-rolled steel and dissimilar substrates without primers. Approved under UL 746C Polymeric Adhesive Systems, Electrical Equipment - Component. SAMS listed.

| ltem # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|----------------|--------|
| 14366 | 35 ml cartridge | 14280 (manual) | 14285 |
| 14367 | 380 ml coax cartridge | 14409 (manual) | 14293 |

Devcon[®] Metal Welder[™] II

Longer open time version of Metal Welder[™] adhesive for bonding large metal parts and assemblies.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|----------------|--------|
| 14363 | 380 ml coax cartridge | 14409 (manual) | 14293 |

Devcon[®] Metal Prep 90[™]

Primer/conditioner improves bond durability on aluminum or stainless steel surfaces.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|-----------|--------|
| 19650 | 1 pt | | _ |









Indicates that either the manual or pneumatic dispenser listed to the right may be used with that size cartridge.











| Physical Properties | Plastic V | Welder™ | Plastic Welder™ II | Composite Welder™ FS | Flex Welder™ | Flex Welder™ FC | Metal Welder™ | Metal Welder™ II |
|--|--------------|---------------------|---------------------|-------------------------|--------------|------------------|---------------|------------------|
| Color | Straw, Black | White | Straw, Black, White | Blue Green, Black | Off-White | Off-White, Black | Grey / Beads | Grey / Beads |
| Mix ratio resin: hardener | 1:1 | 1:1 | 1:1 | 10:1 | 1:1 | 1:1 | 10:1 | 10:1 |
| Mixed viscosity cP | 50,0004 | 50,000 ⁴ | 56,0004 | 120,0004 | 52,000 | 52,000 | 90,0004 | 90,0004 |
| Working time 1 minutes | 4~6 | 2~3 | 15 ~ 20 | 4 ~ 8 | 9 ~ 12 | 3 ~ 5 | 4 ~ 6 | 12 ~ 16 |
| Fixture time ² minutes | 10 ~ 15 | 8~10 | 30 ~ 35 | 10 ~ 15 | 40 ~ 45 | 11 ~ 15 | 20 ~ 25 | 45 ~ 55 |
| Functional cure hours | 0.75 ~ 1 | 0.75~1 | 2 ~ 4 | 0.75 ~ 1 | 2 ~ 4 | 1 | 1 ~ 2 | 4 |
| Adhesive tensile lap shear ³ (ASTM D1002) <i>psi</i> | 3,500 | 3,500 | 3,000 | 2,260 | 2,563 | 2,554 | 2,450 | 2,020 |
| Tensile elongation % | 15 ~ 25 | 15 ~ 25 | 5 ~ 15 | 100 ~ 125 | 120 | 100 | 30 ~ 60 | 40 ~ 60 |
| Peel strength pli | 35 ~ 40 | 35 ~ 40 | 15 ~ 20 | 60 ~ 65 | 20 ~ 27 | 20 ~ 27 | 30 ~ 40 | 30 ~ 40 |
| Impact resistance ft-lb/in ² | 22 | 22 | 17 | 22 | 20 | 19 | >20 | >20 |
| Maximum dry service temperature °F | -67 ~ 250 | -67~250 | -67 ~ 250 | -40 ~ 250 | -67 ~ 250 | -40 ~ 250 | -67 ~ 200 | -67 ~ 200 |

NOTES: ¹ The maximum allowable time to mate and position parts after mixing and application of the adhesive. After this interval, parts must not be disturbed. ² The time required for the adhesive to generate sufficient bond strength to allow parts to be handled without deformation of the bond line. ³ All tensile strength data per ASTM D1002 on grit-blasted steel, bond line thickness of 0.010". ⁴ Thixotropic gel.

| | | | | | Key: 🕚 E | xcellent O Very Good | 🔘 Fair 🛛 Poor |
|---|-----|--------|-------------|-------------|-------------|----------------------|---------------|
| Chemical Resistance | | | | | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% | 0 | 0 0 | 0 0 | 000 | 000 | 0 | 0 0 |
| ALCOHOLS Glycol Isopropanol Methanol | 0 | 0 | 0 • 0 | 0 • 0 | 0 • 0 | 0.00 | 0 |
| KETONES Acetone Methyl ethyl ketone | 00 | 00 | 00 | 00 | 00 | 00 | 00 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | 0 | 0 | 0 | 0 | O Ø | 0 | 0 |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits Motor oil | 000 | 000 | 0 | 0 | 0 0 | 000 | 00 |
| CHLORINATED HYDROCARBONS Perchloroethylene | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SALTS Sodium chloride Trisodium phosphate | 0 | 0 | 0 | 0 | 0 | 0 | 0 0 |











UV Light-Cured Adhesives

Devcon Tru-Bond[™] light-cured adhesives offer the flexibility of unlimited open time plus the productivity of instant cure when exposed to UV light.



Devcon[®] Tru-Bond[™] Glass Bonding (GB)

Designed for bonding glass to glass and dissimilar substrates such as steel and aluminum, Tru-Bond[™] GB Series adhesives cure to a hard, rigid polymer when exposed to light.

| Item # | Container Size | P/N |
|--------|-----------------------|--------|
| 18100 | 25 ml syringe | GB 205 |
| 18101 | 1 liter | GB 205 |

Devcon[®] Tru-Bond[™] Plastic Bonding (PB)

Designed for bonding plastics including ABS, polycarbonate and acrylic, Tru-Bond[™] PB Series adhesives form flexible bonds with superior resilience and impact resistance. These adhesives cure in seconds when exposed to light—even through translucent substrates.

| Item # | Container Size | P/N |
|--------|----------------|---------|
| 18200 | 25 ml syringe | PB 60 |
| 18201 | 1 liter | PB 60 |
| 18204 | 1 liter | PB 950 |
| 18205 | 25 ml syringe | PB 3500 |
| 18206 | 1 liter | PB 3500 |
| 18210 | 25 ml syringe | PB Gel |

Devcon[®] Tru-Bond[™] Universal Bonding (UB)

Tru-Bond[™] UB Series bonds rigid substrates to flexible substrates with UV/Visible light. Also cures through many translucent substrates, as well as UV blocked plastics. UB Series is weatherresistant and creates tough, durable bonds to glass, metals, plastics and ceramics.

| Item # | Container Size | P/N |
|--------|----------------|---------|
| 18705 | 25 ml syringe | UB 3000 |
| 18706 | 1 liter | UB 3000 |

Devcon[®] Tru-Bond[™] Dual-Cure Coating (DC)

Thick version (#18300) forms hard, mar-resistant domes on decals, jewelry, tags and emblems and can be dyed or pigmented. Thin version (#18305) flows and self-levels onto capacitors or resistors and forms a very thin film to protect flexible substrates.

| Item # | Container Size | P/N |
|--------|-----------------------|---------|
| 18300 | 25 ml syringe | DC 1000 |
| 18301 | 1 liter | DC 1000 |
| 18305 | 25 ml syringe | DC 200 |
| 18306 | 1 liter | DC 200 |

Devcon[®] Tru-Bond[™] Pressure Sensitive Adhesive (PSA)

Tru-Bond[™] PSA Series are UV curable pressure sensitive adhesives (PSAs). Solvent-free liquids, they can be applied directly to parts or as films and then UV cured to create PSAs. These adhesives can be applied in a wide range of film or bead thicknesses and will cure within a broad range of UV dosages. Once cured, they provide an excellent balance of peel strength and creep resistance.

| Item # | Container Size | P/N |
|--------|----------------|----------|
| 18401 | 25 ml syringe | PSA 3000 |
| 18402 | 1 liter | PSA 3000 |
| 18406 | 1 liter | PSA 125 |









Tru-Bond[™] Product Selector Guide

| SERIES | Product | Size | item # | Cured Color | Viscosity cP | Specific Gravity g/ml | Tensile Strength _{psi} | % Elongation (ASTM D882) | % Volume Shrinkage | % Water Absorption (ASTM D570) 24 hours | Shore Hardness | Temperature Range °f |
|---------------------|----------|------------------|----------------|-----------------|-----------------|--------------------------|------------------------------------|-----------------------------|-----------------------|--|-------------------|-------------------------|
| | PSA 125 | 1 liter | 18406 | Optically Clear | 125 | 1.06 | — | — | — | 4.2 | 70A | SAFT ¹ = 150 |
| PSA | PSA 3000 | 25 ml 1 liter | 18401 18402 | Optically Clear | 3,000 | 1.07 | _ | _ | _ | 0.0 | 20A | SAFT1 = 260 |
| Universal Bonder | UB 3000 | 25 ml 1 liter | 18705 18706 | Optically Clear | 3,000 | 1.07 | 312 | 214 | 5.8 | 7.5 | 90A | -65 ~ 300 |
| | PB 60 | 25 ml 1 liter | 18200 18201 | Optically Clear | 60 | 0.99 | 570 | 366 | 9.09 | 6.1 | 45D | -65 ~ 300 |
| Plastic | PB 950 | 1 liter | 18204 | Optically Clear | 950 | 1.00 | 511 | 348 | 7.41 | 4.3 | 42D | -65 ~ 300 |
| Bonding | PB 3500 | 25 ml 1 liter | 18205 18206 | Optically Clear | 3,500 | 1.00 | 480 | 325 | 9.00 | 5.0 | 50D | -65 ~ 300 |
| | PB Gel | 25 ml | 18210 | Optically Clear | Gel | 1.03 | 577 | 359 | 8.74 | 5.1 | 37D | -65 ~ 300 |
| Dual Cure | DC 200 | 25 ml 1 liter | 18305 18306 | Optically Clear | 200 | 1.14 | 2,209 | 3.9 | 6.56 | 2.1 | 83D | -65 ~ 300 |
| Coating | DC 1000 | 25 ml 1 liter | 18300 18301 | Optically Clear | 1,000 | 1.17 | 1,028 | 7.4 | 5.65 | 1.1 | 78D | -65 ~ 300 |
| Glass Bonding | GB 205 | 25 ml 1 liter | 18100 18101 | Optically Clear | 205 | 1.07 | 2,290 | 15 | 8.41 | 3.2 | 78D | -65 ~ 300 |

NOTES: All products cure under ultraviolet (UV) and visible light. Dual Cure Coatings (DC Series) cure with UV, visible light and heat. ¹ Shear Adhesion Failure Temperature

Tru-Bond[™] Substrate Selector Guide

| | | | | | | | | | | | | | | | | | | | Ke | y: | D Goo | d to Exc | cellent A | Adhesior | 1 (| 🔿 Fair | to Good | d Adhes | sion |
|--------|-----|------|--------------|-----------|-----|---------------|----------------|--------------------|------|-----------|------|-----|---------------|-----|-------------|-----|-----|----------------|-------------|-----|----------|--------------------------|-----------|------------------|-----------------|--------|---------|---------|---------|
| | | | | | | | | | | PLAS | TICS | | | | | | | | | | | | ME | TAL | | | N | DN-MET | AL |
| SERIES | ABS | FR-4 | Polyethylene | Polyamide | PBT | Polycarhonite | Polyetherimide | Polyester Sulphone | PETG | Polyimide | PMMA | POP | Polypropylene | PPS | Polystyrene | PSU | PUR | PVC (Flexible) | PVC (Rigid) | SAN | Aluminum | Cold-Rolled Steel | Copper | Galvanized Steel | Stainless Steel | Zinc | Grystal | Glass | Ferrite |
| PSA | ٠ | • | 0 | 0 | • | • | 0 | 0 | • | • | • | 0 | 0 | 0 | • | 0 | • | • | • | 0 | • | • | • | • | • | • | • | • | • |
| UB | • | • | | | ٠ | • | 0 | 0 | ٠ | • | ٠ | 0 | | | • | | • | ٠ | ٠ | 0 | ٠ | ٠ | ٠ | ٠ | • | | ٠ | • | • |
| PB | • | • | | | ٠ | ٠ | 0 | 0 | ٠ | • | • | 0 | | | • | | • | • | ٠ | 0 | | 0 | 0 | 0 | 0 | | | | |
| DC | • | • | | | | 0 | | | | 0 | ٠ | | | | 0 | | | 0 | 0 | | ٠ | ٠ | 0 | 0 | ٠ | 0 | ٠ | • | 0 |
| GB | 0 | ٠ | | | 0 | 0 | | | | 0 | 0 | | | | 0 | | | 0 | 0 | | • | • | 0 | 0 | • | | • | • | • |











Permatex[®] ZipGrip[®] Instant Adhesives

From a world leader in cyanoacrylate technology, Permatex[®] ZipGrip[®] Instant Adhesives are designed to handle the full range of OEM applications. This comprehensive line includes formulations for even the most specialized needs.

Permatex[®] ZipGrip[®] General Purpose Instant Adhesives

General Purpose formulations for bonding metals, plastics and rubber in all combinations. Gels are ideal for vertical or inverted surfaces. GPE 180 is ISO 10993 approved.

| Item # | Container Size | P/N |
|--------|-----------------------|----------|
| 70144 | 14 g bottle | GPE 3 |
| 70145 | 2 g tube | GPE 3 |
| 70161 | 1 lb bottle | GPE 3 |
| 70213 | 1/3 oz bottle | GPE 15 |
| 70350 | 1 oz bottle | GPE 30 |
| 70361 | 1 lb bottle | GPE 30 |
| 70450 | 1 oz bottle | GPE 100 |
| 70461 | 1 lb bottle | GPE 100 |
| 70650 | 1 oz bottle | GPE 180 |
| 70661 | 1 lb bottle | GPE 180 |
| 70750 | 1 oz bottle | GPE 1500 |
| 70761 | 1 lb bottle | GPE 1500 |

Permatex[®] ZipGrip[®] Toughened Instant Adhesives

Toughened ethyl versions are modified with elastomeric compounds to improve impact, peel and general toughness of cyanoacrylates. They also exhibit higher temperature and moisture resistance than standard formulas.

| Item # | Container Size | P/N |
|--------|----------------|---------|
| 72150 | 1 oz bottle | TE 1000 |
| 72161 | 1 lb bottle | TE 1000 |
| 72250 | 1 oz bottle | TE 2400 |
| 72261 | 1 lb bottle | TE 2400 |

Permatex[®] ZipGrip[®] Surface Insensitive Instant Adhesives

Surface Insensitive formulations overcome the problems of slow fixturing or no-cure caused by acidic surfaces or very dry environments. These formulations are ideal for difficult-to-bond surfaces.

| Item # | Container Size | P/N |
|--------|-----------------------|---------|
| 71150 | 1 oz bottle | SIE 100 |
| 71161 | 1 lb bottle | SIE 100 |
| 71940 | 20 g tube | SIE Gel |



Permatex[®] ZipGrip[®] General Purpose Instant Adhesives

| Product | Item Number | Container Size | Viscosity | Color | Type | Gap Filling | Adhesive Tensile Shear | Service Temperature | Cure Speed Steel-Plastic-Rubber |
|------------------------------|-------------------------|--|-----------|-------|-----------------|-------------|---------------------------|------------------------|------------------------------------|
| GPE 3 ¹ | 70144 70145 70161 | 14 g bottle 2 g tube 1 lb bottle | 3 cP | Clear | Ethyl | 0.003" | 3,200 psi | -65 to 200°F | 5-10 / 3-5 / <2 sec |
| GPE 151 | 70213 | 1/3 oz bottle | 15 cP | Clear | Ethyl | 0.005" | 3,200 psi | -65 to 200°F | 5-10 / 4-10 / <3 sec |
| GPE 30 1 | 70350 70361 | 1 oz bottle 1 lb bottle | 30 cP | Clear | Neomer Ethyl | 0.004" | 3,200 psi | -65 to 200°F | 5-12 / 5-13 / <6 sec |
| GPE 100 ² | 70450 70461 | 1 oz bottle 1 lb bottle | 100 cP | Clear | Ethyl | 0.004" | 3,200 psi | -65 to 200°F | 10-20 / 10-20 / <5 sec |
| GPE 180 ⁵ | 70650 70661 | 1 oz bottle 1 lb bottle | 180 cP | Clear | Ethyl | 0.006" | 3,000 psi | -65 to 200°F | 10-25 / 10-20 / <4 sec |
| GPE 1500 ³ | 70750 70761 | 1 oz bottle 1 lb bottle | 1,500 cP | Clear | Ethyl | 0.008" | 3,400 psi | -65 to 200°F | 20-40 / 25-50 / <10 sec |

Permatex[®] ZipGrip[®] Toughened Instant Adhesives

| Product | ltem Number | Container Size | Viscosity | Color | Type | Gap Filling | Adhesive Tensile Shear | Service Temperature | Cure Speed Steel-Plastic-Rubber |
|-----------------------------|----------------|----------------------------|-----------|-------|-------|-------------|---------------------------|------------------------|------------------------------------|
| TE 1000 ³ | 72150 72161 | 1 oz bottle 1 lb bottle | 1,000 cP | Clear | Ethyl | 0.008" | 3,700 psi | -65 to 280°F | 25-40 / 25-50 / 20-50 sec |
| TE 2400 ³ | 72250 72261 | 1 oz bottle 1 lb bottle | 2,400 cP | Clear | Ethyl | 0.009" | 3,700 psi | -65 to 280°F | 40-70 / 25-50 / 25-50 sec |

Permatex® ZipGrip® Surface Insensitive Instant Adhesives

| Product | Item Number | Container Size | Viscosity | Color | Type | Gap Filling | Adhesive Tensile Shear | Service Temperature | Cure Speed Steel-Plastic-Rubber |
|-----------------------------|----------------|----------------------------|-----------|-------|-----------------|-------------|---------------------------|------------------------|------------------------------------|
| SIE 100 ² | 71150 71161 | 1 oz bottle 1 lb bottle | 100 cP | Clear | Neomer Ethyl | 0.005" | 3,200 psi | -60 to 200°F | 8-12/3-7/<6 sec |
| SIE Gel ⁴ | 71940 | 20 g tube | Gel | Clear | Ethyl | 0.010" | 3,500 psi | -60 to 200°F | 50-70 / 25-65 / 20-30 sec |

NOTES: ¹ Commercial Item Standard A-A-3097, Type II, Class 1

³ Commercial Item Standard A-A-3097, Type II, Class 3 ⁵ Commercial Item Standard A-A-3097, Type II, Class 2 and ISO 10993 Approved ² Commercial Item Standard A-A-3097, Type II, Class 2
 ⁴ Commercial Item Standard A-A-3097, Type II, Class 5









Manual and Pneumatic Systems

Manual and pneumatic applicator guns with static nozzles mix as they dispense, eliminating premixing and ensuring precise bead control.

Devcon[®] 50 ml Mark 5[™] Dispensing System

Manual and pneumatic dispensing guns and custom-designed static mixing nozzles for 1:1 and 10:1 50 ml systems.

| Item # | Dispensing Guns |
|--------|-----------------|
|--------|-----------------|

| 74001 | GP Manual (1:1 ratio and 2:1 ratio) |
|-------|-------------------------------------|
| 14280 | Manual (1:1 and 10:1 ratio) |
| | Mixing Nozzles |
| 14285 | Ø .25" (1:1, 2:1 and 10:1 ratio) |

Devcon[®] 380 ml Coaxial Dispensing System

Manual and pneumatic dispensing guns and custom-designed static mixing nozzles for 10:1 380 ml coaxial systems.

| Item # | Dispensing Guns |
|--------|------------------------|
| 14409 | Manual (10:1 ratio) |
| | |
| | Mixing Nozzles |



Mix Nozzle Selector Guide

| Item Number | Element | Product Compatibility | | |
|--|---------------------------------|---|--|--|
| 14285 (for Mark 5 [™] 1:1, 2:1 and 10:1 50 ml gun) | 20 element 6.35 mm or Ø.250" | One Minute", 5 Minute", 2 Ton®, Epoxy Plus" 25, HP 250 HP 2500, 5 Minute® Gel, Plastic Welder", Plastic Welder" II, Flex Welder", Metal Welder" | | |
| 14287 (for 490 ml 10:1 manual gun) | 24 element 9 mm or Ø.375" | Composite Welder [™] FS | | |
| 14291 (for 400 ml pneumatic gun only) | 18 element 6 mm or Ø .250" | Smaller diameter for less waste for methacrylates / Plastic Welder", Plastic Welder" II, Flex Welder", Flex Welder" FC | | |
| 14292 (for 400 ml 1:1 manual or pneumatic gun) | 18 element 10 mm or Ø .395" | One Minute [™] , 5 Minute [®] , 2 Ton [®] , Epoxy Plus [™] 25, HP 250, HP 2500, 5 Minute [®] Gel, Plastic Welder [™] , Plastic Welder [™] II, Flex Welder [™] , Flex Welder [™] FC, Food Grade Pot & Seal | | |
| 14293 (for 400 ml 1:1 manual or pneumatic gun) (for 380 ml 10:1 Coaxial manual or pneumatic gun) | 32 element 8 mm or Ø .315" | Epoxy Plus [™] 25, Cable Cast, Metal Welder [™] , Metal Welder [™] II, Dev-Thane [™] 5 | | |
| 15047 (for 400 ml 4:1 manual or pneumatic gun) | 24 element 10 mm or Ø .394" | Flexane® FC Rubber Repair Liquid, Flexane® FC Rubber Repair, Edge & Seal (T-35) | | |

Devcon® 400 ml Dispensing System

Manual and pneumatic dispensing guns and customdesigned static mixing nozzles for 1:1 400 ml systems and 4:1 400 ml systems.

| Item # | Dispensing Guns | | | |
|--------------------|--|--|--|--|
| 14401 | GP Manual (1:1, 2:1 and 4:1 ratio) | | | |
| 14410 | Manual (1:1 and 2:1 ratio) | | | |
| 14400 | Pneumatic (1:1 and 2:1 ratio) | | | |
| 15043 | Manual (4:1 ratio) | | | |
| Mixing Nozzles | | | | |
| Mixing No | ozzles | | | |
| Mixing No 14291 | ø zzles Ø .250'' (1:1 ratio) | | | |
| • | | | | |
| 14291 | Ø .250" (1:1 ratio) | | | |

Devcon® 490 ml Dispensing System

Manual dispensing gun and custom-designed static mixing nozzles for 10:1 490 ml systems.

 Item #
 Dispensing Guns

 Contact Devcon Tech Service

 Mixing Nozzles

 14287
 Ø.375" (10:1 ratio)

Devcon® 25 ml Syringe Dispensing System

Manual single component syringe dispensing system used with Devcon's Light-Cured adhesives.

| Item # | Dispensing Guns |
|--------|---------------------------|
| 18000 | Manual (single component) |













Products for Both Maintenance/Repair and OEM Assembly

Certain products are hard to keep in stock because everyone in the plant from production to maintenance—uses them routinely. Today, with it's highly respected Permatex[®] brands, ITW Devcon offers field-proven products to improve reliability in both assembly and repair applications.

Permatex[®] products for both Assembly and Repair include:

- Permatex[®] liquid and gel threadlockers to prevent fastener loosening caused by shock or vibration, and to protect against rust and corrosion
- Permatex[®] retaining compounds to secure and protect non-threaded assemblies
- Permatex[®] thread sealants to lubricate and protect threads and prevent leakage in both high-pressure and low-pressure systems
- Permatex[®] anaerobic and RTV silicone form-in-place gasket makers, dressings and general-purpose sealants







Permatex:

MEDIUM

STRENGT



THREADLOCKERS

THREADLOCKERS

Permatex[®] Liquid Threadlockers... Providing Threaded Fastener Reliability

Permatex[®] Threadlockers are superior to conventional lock washers, nylon inserts and other mechanical devices because they secure the entire fastener assembly against loosening from shock or vibration and maintain fastener clamping forces. Threadlockers also seal the threads against leakage and prevent rust and corrosion. Available in a variety of strengths and temperature ranges, threadlockers remain the most reliable way to lock and seal threaded fasteners of all shapes and sizes, either before or after assembly.





VS.

PERMATEX® THREADLOCKER Entire threaded area filled with threadlocker. ONE DROP FITS ALL! Threads sealed moisture can't get inside. LOCK WASHER Contact only under boltbolt can vibrate loose. Must use right size. Threads open moisture can get in causing corrosion.

Permatex® Liquid Threadlockers

| Product | ltem Number | Container Size | Typical Use | Color | Viscosity cP | Break/Prevail Torque in-lbs ¹ | Temperature Range | Fixture Time²/ Full Cure | Fixture with Primer | Specific Gravity |
|---|----------------------------------|---|-----------------------------|--------|-----------------------------|---|----------------------------------|-----------------------------|------------------------|---------------------|
| Permatex® Low Strength Threadlocker PURPLE | 22250 22225 | 50 ml bottle 250 ml bottle | Up to 1/4" (6mm) | Purple | 1,200/5,000 Thixotropic | 62/27 | -65° to 300°F (-54° to 149°C) | 20 min/ 24 hrs | 5 min | 1.05 |
| Permatex® Medium Strength Threadlocker BLUE | 24210 24250 24225 | 10 ml bottle 50 ml bottle 250 ml bottle | 1/4" to 3/4" (6-20mm) | Blue | 1,200/6,000 Thixotropic | 115/53 | -65° to 300°F (-54° to 149°C) | 20 min/ 24 hrs | 5 min | 1.00 |
| Permatex® Surface Insensitive Threadlocker BLUE | 24350 24325 | 50 ml bottle 250 ml bottle | 1/4" to 3/4" (6-20mm) | Blue | 2,250/12,000 Thixotropic | 180/62 | -65° to 300°F (-54° to 149°C) | 20 min/ 24 hrs | 5 min | 1.08 |
| Permatex® Permanent Strength Threadlocker RED | 26210 26250 26225 26201 | 10 ml bottle 50 ml bottle 250 ml bottle 1 L bottle | 3/8" to 1" (10-25mm) | Red | 1,800/5,000 Thixotropic | 189/275 | -65° to 300°F (-54° to 149°C) | 20 min/ 24 hrs | 5 min | 1.10 |
| Permatex® High Strength Threadlocker RED | 27110 27150 27125 | 10 ml bottle 50 ml bottle 250 ml bottle | 3/8" to 1" (10-25mm) | Red | 500 | 230/225 | -65° to 300°F (-54° to 149°C) | 20 min/ 24 hrs | 5 min | 1.10 |
| Permatex® High Temperature Threadlocker RED | 27250 27225 | 50 ml bottle 250 ml bottle | 3/8" to 1 1/2" (10-38mm) | Red | 10,000 | 180/270 | -65° to 450°F (-54° to 232°C) | 30 min/ 24 hrs | 5 min | 1.11 |
| Permatex® Large Diameter Threadlocker RED | 27750 27725 | 50 ml bottle 250 ml bottle | 1" and over (25mm+) | Red | 7,000 | 250/200 | -65° to 300°F (-54° to 149°C) | 60 min/ 24 hrs | 5 min | 1.12 |
| Permatex® Penetrating Grade Threadlocker GREEN | 29050 29025 | 50 ml bottle 250 ml bottle | #2 to 1/2" (2.2-12mm) | Green | 12 | 90/310 | -65° to 300°F (-54° to 149°C) | 20 min/ 24 hrs | 3 min | 1.08 |

NOTES: ¹.375" x 16 phosphate steel ² Fixture strength is equivalent to 20% of full cure strength











Permatex[®] Low Strength

MIL-SPEC (S-46163A), Type II, Grade M.

Container Size

Permatex[®] Surface Insensitive

Container Size

50 ml bottle

250 ml bottle

Threadlocker BLUE

Prevents vibration loosening.

50 ml bottle

250 ml bottle

Low strength threadlocker designed for fasteners

under 1/4" (6mm) that require occasional adjustment.

Removable with hand tools for easy disassembly.

Medium/High strength threadlocker for general-purpose

applications. Especially well-suited for 1/4" to 3/4"

(6mm to 20mm) fasteners that have a slight oil film.

Threadlocker PURPLE

Item #

22250

22225

Item #

24350

24325

LIQUID THREADLOCKERS

Permatex® Threadlockers... **Exceptional Performance, Reliability and Value**

Permatex® Medium Strength Threadlocker BLUE

All-purpose, medium strength threadlocker. Ideal for all nut and bolt applications 1/4" to 3/4" (6mm to 20mm). Eliminates need for stocking expensive lock nuts and lock washers. Locks and seals while preventing parts from loosening due to vibration. Protects threads from corrosion. Removable with hand tools for easy disassembly. MIL-SPEC (S-46163A), Type II, Grade N.

Item # **Container Size**

| 24210 | 10 ml bottle, carded |
|-------|----------------------|
| 24250 | 50 ml bottle |
| 24225 | 250 ml bottle |

Permatex® Permanent Strength

A permanent, high strength threadlocker that is applied

to fasteners 3/8" to 1" (10mm to 25mm) in size before

assembly. Designed for securing parts that must

withstand heavy shock, vibration or extreme chemical

or environmental conditions. Localized heat and hand

tools are required to separate parts. MIL-SPEC

Threadlocker RED

(S-46163A), Type II, Grade O.

Item #

26210

26250

26225

26201

Container Size

50 ml bottle

250 ml hottle

1 L bottle

10 ml bottle, carded

Permatex® High Strength Threadlocker RED

High strength threadlocker for heavy-duty applications 3/8" to 1" (10mm to 25mm). Especially well suited for permanently locking studs. Locks against vibration loosening. Removable with heat and hand tools. MIL-SPEC (S-46163A), Type I, Grade K.

| Item # | Container Size |
|--------|-----------------------|
| 27110 | 10 ml bottle, carded |
| 27150 | 50 ml bottle |
| 27125 | 250 ml bottle |

Permatex® Penetrating Grade Threadlocker GREEN



A low viscosity threadlocking liquid that wicks along the threads of preassembled fasteners to secure them in place. Since it is applied after assembly, preventive maintenance procedures are simplified. Ideal for fasteners ranging from #2 to 1/2" (2.2 to 12mm) in size. Localized heating and hand tools are needed for disassembly. MIL-SPEC (S-46163A), Type III, Grade R.

| Item # | Container Size |
|--------|----------------|
| 29050 | 50 ml bottle |
| 29025 | 250 ml bottle |

Permatex® Large Diameter Threadlocker RED

A high strength adhesive for locking and sealing large bolts and studs 1" (25mm+) or larger in diameter. Heat may be required to weaken bond before parts can be disassembled, MIL-SPEC (S-46163A), Type I, Grade L,

| Item # | Container Size |
|--------|-----------------------|
| 27750 | 50 ml bottle |
| 27725 | 250 ml bottle |

Permatex® High Temperature Threadlocker RED

Hi-temp/hi-strength threadlocker for heavy-duty applications. Prevents bolts 3/8" to 11/2" (10mm to 38mm) from loosening due to shock, severe vibration and heat stress. Suited for temperatures up to 450°F (232°C). Removable with heat and hand tools.

| ltem # | Container Size |
|--------|-----------------------|
| 27250 | 50 ml bottle |
| 27225 | 250 ml bottle |











18

Permatex[®] GEL TWIST, and GEL SQUEEZE, Threadlockers... TRUE Threadlocking Innovation!

Permatex[®] Threadlocker Gels are the true innovation in threadlocking! Available in Medium Strength BLUE Gel and High Strength RED Gel, the unique Permatex[®] GEL TWIST[™] and GEL SQUEEZE[™] applicators leave the threadlocker where you want it...on the part! No more liquid drips or solid stick globs to deal with. No more mess to clean or costly waste to worry about. Permatex[®] Threadlocker Gels eliminate these hassles while still providing "liquid quality" application reliability.

Permatex[®] Medium Strength Threadlocker BLUE Gel

An all-purpose, medium strength blue threadlocker gel that reliably secures all nut and bolt applications 1/4" to 1" (6mm to 25mm). Locks and seals while preventing parts from loosening due to vibration. Protects threads from corrosion. Removable with hand tools for easy disassembly.

| Item | # Coi | ntainer Size | 5+1 | Item # | Conta |
|------|-------|----------------------------------|-------|--------|------------------|
| 2400 | 0 | GEL SQUEEZE™ e, carded | 24205 | 27005 | 5 g GE tube, |
| 2401 | | g GEL TWIST™ olicator, carded | 24215 | 27010 | 10 g G applic |

Permatex[®] High Strength Threadlocker RED Gel

A high strength threadlocker red gel for heavy-duty applications. Ideal for reliably securing all permanent nut and bolt applications 3/8" to 1" (10mm to 25mm) and greater. Locks and seals while preventing parts from loosening due to vibration. Protects threads from corrosion. Requires heat or special tools for removal.

| Item # | Container Size | |
|--------|---------------------------------------|-------|
| 27005 | 5 g GEL SQUEEZE tube, carded | 26205 |
| 27010 | 10 g GEL TWIST™ applicator, carded | 27115 |



Permatex® GEL TWIST_™ and GEL SQUEEZE_™ Threadlockers

| | Product | ltem Number | Container Size | Typical Use | Color | Viscosity cP | Break / Prevail Torque in-Ibs ¹ | Temperature Range | Fixture Time²/ Full Cure | Specific Gravity |
|---|--|----------------|---|--|-------|-----------------------------------|---|----------------------------------|-----------------------------|---------------------|
| | Permatex® Medium Strength Threadlocker BLUE Gel | 24005 24010 | 5 g GEL SQUEEZE™ Tube 10 g GEL TWIST™ Applicator | 1/4" to 1" (6-25mm) | Blue | 75,000/ 900,000 Thixotropic | 115/53 | -65° to 300°F (-54° to 149°C) | 15 min/ 24 hrs | 1.15 |
| т | Permatex® High Strength Threadlocker RED Gel | 27005 27010 | 5 g GEL SQUEEZE™ Tube 10 g GEL TWIST™ Applicator | 3/8" to 1" (10-25mm) and greater | Red | 75,000/ 900,000 Thixotropic | 175/230 | -65° to 300°F (-54° to 149°C) | 15 min/ 24 hrs | 1.13 |

NOTES: ¹.375" x 16 phosphate steel ² Fixture strength is equivalent to 20% of full cure strength











Ordering number in Canada

RETAINING COMPOUNDS





Permatex® Bearing Mount for Close Fits

A low viscosity, rapid-curing anaerobic adhesive that augments the strength of press fit assemblies. Prevents fretting and corrosion. Up to 3,000 psi holding power. MIL-SPEC (R-46082B), Type I.

| Item # | Container Size |
|--------|-----------------------|
| 60950 | 50 ml bottle |
| 60925 | 250 ml bottle |

Permatex[®] High Temperature Sleeve Retainer

High temperature (up to 400°F / 204°C) anaerobic adhesive that secures slip and press fit assemblies. Up to 3,000 psi holding power. Restores fit to worn or out-of-tolerance assemblies. Prevents fretting and corrosion. MIL-SPEC (R-46082B), Type II.

| Item # | Container Size |
|--------|-----------------------|
| 64050 | 50 ml bottle |

Permatex® Retaining Compounds

| Product | ltem Number | Container Size | Color | Maximum Diametral Gap Fill | Viscosity cP | Shear Strength psi | Temperature Range | Fixture Time/ Full Cure (on Steel) | Specific Gravity |
|---|----------------|-------------------------------|--------|----------------------------------|-----------------|--------------------------|------------------------------------|--|---------------------|
| Permatex® Bearing Mount For Close Fits | 60950 60925 | 50 ml bottle 250 ml bottle | Green | .005" | 125 | 3,000 | - 65° to 300°F (- 54° to 149°C) | 10 min/ 24 hrs | 1.10 |
| Permatex® Maximum Temperature Bearing Mount | 62050 62001 | 50 ml bottle 1 L bottle | Green | .015" | 8,500 | 3,800 | -65° to 450°F (-54° to 232°C) | 1 hr/ 24 hrs | 1.16 |
| Permatex® High Temperature Sleeve Retainer | 64050 | 50 ml bottle | Green | .007" | 600 | 3,000 | -65° to 400°F (-54° to 204°C) | 1 hr/ 24 hrs | 1.12 |
| Permatex® Bearing Mount For Worn Parts | 66050 | 50 ml tube | Silver | .020" | 1,200,000 | 3,000 | -65° to 300°F (-54° to 149°C) | 10 min/ 1-2 hrs | 1.13 |
| Permatex® Bearing Mount For Relaxed Fits | 68050 68025 | 50 ml bottle 250 ml bottle | Green | .015" | 1,250 | 3,800 | -65° to 300°F (-54° to 149°C) | 10 min/ 24 hrs | 1.10 |

Permatex[®] Retaining Compounds

Permatex[®] Retaining Compounds are designed to bond non-threaded, cylindrical, metal assemblies by filling the voids between close-fitting metal parts. Retaining Compounds harden to create a solid, one-piece assembly. Retaining Compounds can be used to lock keyways, secure splines, augment press fits and strengthen interference fits. Use them to prevent wear on new components, or restore the fit to worn or out-of-tolerance parts. Retaining Compounds seal joints against leakage and prevent fretting and corrosion. Formulated in a variety of viscosities, strength characteristics, gap-filling abilities and temperature ranges, Permatex[®] Retaining Compounds can solve even the most difficult retaining applications.

Permatex[®] Bearing Mount for Relaxed Fits

High strength, medium viscosity anaerobic adhesive for slip fit assemblies. Provides 3,500 psi shear strength on steel. Prevents fretting and corrosion. Fixture time is 10 minutes at room temperature.

| Item # | Container Size |
|--------|-----------------------|
| 68050 | 50 ml bottle |
| 68025 | 250 ml bottle |

Permatex[®] Maximum Temperature Bearing Mount

Maximum temperature (up to 450°F/232°C) anaerobic retaining adhesive for close fitting cylindrical joints. Provides excellent resistance at elevated temperatures.

| Item # | Container Size |
|--------|----------------|
| 62050 | 50 ml bottle |
| 62001 | 1 L bottle |



A creamy, non-running gel that can be applied onto cylindrical parts to fill surface imperfections and repair worn areas. It contains no metal, but once assembled, hardens to a strength that often doubles that of a press fit. Use to salvage worn metallic parts or to keep machinery running until new parts arrive. Product remaining outside the joint does not dry, allowing for easy clean up. Use to 300°F (149°C). Can bond cylindrical assemblies, particularly where gaps approach 0.50 mm.

| Item # | Container Size |
|--------|--------------------|
| 66050 | 50 ml tube, carded |













THREAD SEALANTS

Permatex® Thread Sealants

Permatex® Thread Sealants seal and secure metal pipes and fittings. By filling the space between threaded metal parts, Thread Sealants prevent leakage caused by vibration loosening, tape shredding, solvent evaporation, damaged threads and temperature cycling. Designed for low- and high-pressure applications, Thread Sealants seal instantly for online low-pressure testing. When fully cured, they seal to the burst strength of most piping systems. The high lubricating properties of Permatex[®] Thread Sealants ease assembly and prevent galling of the threads. For system repairs, parts may be disassembled with basic hand tools.

Permatex® High Performance Thread Sealant



Formulated specifically for metal, tapered pipe thread fittings. High Performance Thread Sealant replaces tapes and pipe dopes. Cures rapidly to withstand 10,000 psi. Prevents galling and protects mated threaded areas from rust and corrosion. Contains PTFE.

| Item # | Container Size | |
|--------|--------------------|---|
| 56521 | 50 ml tube, carded | 1 |
| 56525 | 250 ml tube | |

5+1 19545

Permatex[®] High Temperature **Thread Sealant**

Locks and seals threaded fittings. Resists leakage, vibration loosening, moisture, hydraulic fluids and diesel fuels. Lubricates threads for easy assembly and disassembly. Won't shred or tear like tape. Parts may be repositioned up to 4 hours after application. Contains PTFE. Temperature range from -65°F to 400°F (-54°C to 204°C).

| Item # | Container Size | 5+8 |
|--------|--------------------|-------|
| 59235 | 50 ml tube, carded | 17358 |
| 59225 | 250 ml tube | |

Permatex® Maximum Temperature Thread Sealant

A high performance, solvent resistant sealant that locks and seals metal tapered pipe threads and fittings. Specifically formulated for aluminum, stainless steel, galvanized metal and other inert metals. Temperature range -65°F to 400°F (-54°C to 204°C). Contains PTFE.

| Item # | Container Size |
|--------|-----------------------|
| 56750 | 50 ml tube, carded |
| 56725 | 250 ml tube |

Ordering number in Canada











| tex® Threa | d Seala | Ints | THE ACCOUNT OF A COUNT | Permater: | | AD SEALANT | matex: |
|--------------------------------------|----------------|---------------------------|--|-----------------|-------------------------------|------------------------------------|---------------|
| Product | ltem Number | Container Size | Color | Viscosity cP | Seal to Operating Pressure | Temperature Range | Speci Grav |
| rmatex® Performance ad Sealant | 56521 56525 | 50 ml tube 250 ml tube | White | 300,000 | 4 hrs | - 65° to 300°F (- 54° to 149°C) | 1.1 |
| rmatex® emperature ad Sealant | 59235 59225 | 50 ml tube 250 ml tube | White | 350,000 | 4 hrs | - 65° to 400°F (- 54° to 204°C) | 1.2 |
| rmatex® | 56750 | 50 ml tube | 14/1-14- | 000 000 | 4 has | - 65° to 400°F | |

Permat

| Product | ltem Number | Container Size | Color | Viscosity cP | Seal to Operating Pressure | Temperature Range | Specific Gravity |
|--|----------------|---------------------------|--------|-----------------|-------------------------------|------------------------------------|---------------------|
| Permatex® High Performance Thread Sealant | 56521 56525 | 50 ml tube 250 ml tube | White | 300,000 | 4 hrs | - 65° to 300°F (-54° to 149°C) | 1.10 |
| Permatex® High Temperature Thread Sealant | 59235 59225 | 50 ml tube 250 ml tube | White | 350,000 | 4 hrs | - 65° to 400°F (- 54° to 204°C) | 1.21 |
| Permatex® Maximum Temperature Thread Sealant | 56750 56725 | 50 ml tube 250 ml tube | White | 300,000 | 4 hrs | - 65° to 400°F (- 54° to 204°C) | 1.10 |
| Permatex® Thread Sealant w/PTFE | 80632 80633 | 4 oz can 16 oz can | White | 55,000 | Instant/ Non-Curing | - 65° to 300°F (-54° to 149°C) | 1.12 |
| Permatex® Pneumatic/Hydraulic Sealant | 54550 | 50 ml bottle | Purple | 14,000 | 4 hrs | - 65° to 300°F (-54° to 149°C) | 1.02 |
| Permatex® Pipe Joint Compound | 80045 | 16 oz bottle | Black | 40,000 | Instant/ Non-Curing | - 65° to 400°F (- 54° to 204°C) | 1.28 |

Permatex[®] Thread Sealant with PTFE

Economical general-purpose fitting sealant. Outperforms tapes and pipe dopes. Seals and resists pressure in air, oil, diesel fuel and hydraulic systems. Remains pliable at high and low temperatures. Temperature range -65°F to 300°F (-54°C to 149°C); resists common shop fluids.

| Item # | Container Size | P/N | 8+1 |
|--------|-----------------------|-----|-------|
| 80632 | 4 oz can | 14H | 80510 |
| 80633 | 16 oz can | 14D | |

Permatex® Pneumatic/Hydraulic Sealant

Designed for locking and sealing high pressure hydraulic and pneumatic systems. Contains no fillers or particles which could contaminate system fluids, foul valves or clog fine filters and screens. Reliably cures on "as received" fasteners and controlled locking strength affords easy disassembly.

Container Size Item # 54550 50 ml bottle

Permatex® Pipe Joint Compound

Universal sealant. Lubricates and seals threaded joints on water, oil and fuel lines. Temperature range -65°F to 400°F (-54°C to 204°C); resists common shop fluids.

| Item # | Container Size | P/N |
|--------|-----------------------|-----|
| 80045 | 16 oz bottle | 51D |



Activators

Permatex[®] Surface Prep[™] **Activator for Anaerobics**



Speeds cure of Permatex® Threadlockers, Thread Sealants, Retaining Compounds and Anaerobic Gasket Makers. Recommended for use during cold weather. General purpose solvent for preparing parts and surfaces. ▲ NFPA Fire Code 30B: Level 1.

Item # **Container Size**

24163 4.5 oz net wt

6 oz aerosol can,



Gering number in Canada











SPECIALTY ADHESIVES

Specialty Adhesives

High-performance adhesives for specialized applications.

Permatex® Clear RTV Silicone Adhesive Sealant



General-purpose, clear RTV sealant. Seals, bonds, repairs, mends and secures glass, metal, plastics, fabric, vinyl, weather stripping and vinyl tops. May be applied to horizontal or vertical surfaces. Waterproof and flexible. Temperature range -75°F to 400°F (-59°C to 204°C); resists oil, water, weather, vibration, grease and more. Nonpaintable. MIL-A-46106B, Type I.

| Item # | Container Size | P/N | 6+8 |
|--------|-------------------------|------|-------|
| 80050 | 3 oz tube, carded | 66BR | 80533 |
| 81913 | 7.25 oz Automatic Tube® | | |
| 85913 | 7.25 oz PowerBead™can | | |
| 80855 | 11 oz cartridge | 66C | 80834 |

Permatex® Black Silicone Adhesive Sealant

General-purpose, black RTV sealant. Seals, bonds, repairs, mends and secures glass, metal, plastics, fabric, vinyl, weather stripping and vinyl tops. May be applied to horizontal or vertical surfaces. Waterproof and flexible. Temperature range -75°F to 450°F (-59°C to 232°C); resists oil, water, weather, vibration, grease and more. Nonpaintable. MIL-A-46106B, Type I.

| Item # | Container Size | P/N | 5+5 |
|--------|-------------------|------|-------|
| 81158 | 3 oz tube, carded | 16BR | 81237 |
| 81173 | 12.9 oz cartridge | 16C | 81238 |

Permatex® Super Weatherstrip Adhesive

A professional, high strength weatherstrip adhesive ideal for bonding a variety of common materials. Permanently bonds weatherstrip and a variety of neoprene and other materials. Withstands temperature extremes. Waterproof. Resists gasoline, antifreeze, kerosene and most solvents.

| Item # | Container Size | P/N | 5 +1 |
|--------|---------------------|-----|-------------|
| 81731 | 5 fl oz tube, boxed | 80 | 17361 |

Permatex® Black Super Weatherstrip Adhesive

A professional, black weatherstrip adhesive that blends with black weather stripping for less cleanup. Withstands temperature extremes. Resistant to gasoline, kerosene, antifreeze and most solvents. Permanently bonds all weather stripping. A superior adhesive for bonding a variety of common materials.

| Item # | Container Size | P/N |
|--------|---------------------|-----|
| 81850 | 5 fl oz tube, boxed | 82 |

Permatex® Fast Cure Epoxy

Convenient premeasured epoxy mixer cups. No mess, no guess, no waste. Ideal for bonding glass, hard plastics, rubber and metal. Bonds in 5-15 minutes. Grey adhesive has excellent chemical resistance. Fills porosities and can be used to build up worn parts.

| Item # | Container Size | 5+1 |
|--------|----------------|-------|
| 21425 | 4 g mixer cups | 21431 |



Item # **Container Size** 6245 1 fl oz

Devcon® Duco® Cement

Clear all-purpose waterproof household glue. Ideal for

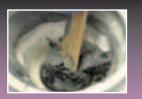
china, glass, plastic, wood and metal and is fast-drying.



Ordering number in Canada











GASKET MAKERS

Permatex[®] Gasket Makers

Permatex[®], the leader in form-in-place gasket makers, gasket dressings and general-purpose sealants for over a century, has an extensive selection of anaerobics, RTV silicones and solvent-based products to meet all your gasketing and sealing needs.

Anaerobic Gasket Makers

- Rigid assemblies
- Designed to eliminate movement
- Gaps up to 0.050" primed
- High chemical resistance
- Maximum temperature of 400°F

RTV Silicone Gasket Makers

- Instant seal with the Right Stuff®
- Flexible joints
- Use with dissimilar materials
- Gaps up to 0.250"
- Temperatures to 600°F



Permatex[®] PowerBead[™]... the ultimate dispensing system

- Makes application quick and easy
- Provides smooth flow and bead
- Extended, rigid nozzle gives pinpoint control
- Patented vertically-actuated valve design eliminates clogging
- Product flow is easily regulated without finger fatigue
- Permatex[®] branded cushion-grip shows you have chosen the best















Permatex® Gasket Makers

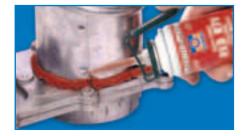
| Product | Item Number | Color | Maximum Gap Fill | Typical Use | Temperature Range | Flange Type | Cure Type | Specific Gravity |
|---|-------------------------------|-----------------|---------------------------|---|---|----------------------|-----------------------|------------------|
| Permatex® the Right Stuff® Gasket Maker | 25224, 29208, 85224, 33694 | Black | 0.25" | High adhesion, instant seal | -75° to 450°F (-59° to 232°C), 500°F (260°C) intermittent | Rigid or Flexible | Elastomeric Rubber | 1.31 |
| Permatex® Ultra Black® Maximum Oil Resistance Gasket Maker | 82180, 82080, 85080, 24105 | Metallic Black | 0.25" | Increased oil resistance, noncorrosive | -65° to 400°F (-54° to 204°C), 500°F (260°C) intermittent | Rigid or Flexible | Silicone (Oxime) | 1.26 |
| Permatex® Ultra Copper® Maximum Temperature RTV Silicone Gasket Maker | 81878 82751 | Metallic Copper | 0.25" | High temperature, noncorrosive | -65° to 600°F (-54° to 316°C), 700°F (371°C) intermittent | Rigid or Flexible | Silicone (Oxime) | 1.05 |
| Permatex® Ultra Blue® RTV Silicone Gasket Maker | 81724 85519 81725 | Metallic Blue | 0.25" | Increased oil resistance, noncorrosive | -65° to 400°F (-54° to 204°C), 500°F (260°C) intermittent | Rigid or Flexible | Silicone (Oxime) | 1.30 |
| Permatex® Ultra Grey® Gasket Maker | 82194 82195 | Metallic Grey | 0.25" | High durometer for more rigid flanges | -65° to 450°F (-54° to 232°C), 500°F (260°C) intermittent | Rigid or Flexible | Silicone (Oxime) | 1.50 |
| Permatex® Sensor-Safe Blue RTV Silicone Gasket Maker | 80022, 81860, 85860, 80628 | Blue | 0.25" | General-purpose sealing | -65° to 400°F (-54° to 204°C), 500°F (260°C) intermittent | Rigid or Flexible | Silicone (Acetoxy) | 1.30 |
| Permatex® High-Temp Red RTV Silicone Gasket Maker | 81160, 81915, 85915, 81409 | Red | 0.25" | High temperature general-purpose sealing | -65° to 600°F (-54° to 316°C), 650°F (343°C) intermittent | Rigid or Flexible | Silicone (Acetoxy) | 1.05 |
| Permatex® Anaerobic Flange Sealant | 51531 51580 | Dark Purple | 0.010" (0.050" primed) | For flexible applications | -65° to 300°F (-54° to 149°C) | Rigid | Anaerobic | 1.10 |
| Permatex® Anaerobic Gasket Maker | 51817 51813 51845 | Red | 0.010" (0.050" primed) | For all metals including aluminum flanges | -65° to 300°F (-54° to 149°C) | Rigid | Anaerobic | 1.13 |





The Right Stuff® Application Instructions

- 1. Clean and dry parts.
- 2. Apply a continuous bead of the Right Stuff[®] to one surface, surrounding all bolt holes.
- 3. Assemble parts within 5 minutes, tightening bolts to recommended torque levels. Material will fill any surface imperfection. Equipment can be returned to service immediately. No waiting.













25

GASKET MAKERS





Permatex[®] the Right Stuff[®] Gasket Maker



Heavy-bodied, black, elastomeric rubber provides instant seal. Superior flexibility and adhesion accommodates joint movement. Excellent oil resistance. Noncorrosive. Low odor. Low volatility. Temperature range of -75°F to 450°F (-59°C to 232°C) continuous, 500°F (260°C) intermittent. Not recommended for use on parts that will be in contact with gasoline.

| Item # | Container Size | 6 • • |
|--------|-----------------------------------|--------------|
| 25224 | 7 oz Automatic Tube® | |
| 85224 | 7.5 oz PowerBead [™] can | 26015 |
| 29208 | 5 oz cartridge | |
| 33694 | 10.1 fl oz cartridge | |
| 29247 | short caulking gun | |
| | | |



Ordering number in Canada



Permatex® Ultra Black® Gasket Maker

Fast-curing formula. Sensor-safe, low odor, noncorrosive. Fills gaps of up to 0.25" when fully cured. Meets performance specs of OE silicone gaskets. Retains high flexibility, oil resistant properties through use of a patented adhesion system. Temperature range -65°F to 400°F (-54°C to 204°C) continuous, 500°F (250°C) intermittent. Resists common fluids and excessive vibration.

| Item # | Container Size | 6+1 |
|--------|-----------------------------------|-------|
| 82180 | 3.35 oz tube, carded | 59803 |
| 82080 | 8.75 oz Automatic Tube® | |
| 85080 | 9.5 oz PowerBead [™] can | |
| 24105 | 13 oz cartridge | 59813 |

Permatex® Ultra Grey® Gasket Maker

Designed for high torque applications requiring a unique RTV gasket. Fills gaps of up to $0.25^{"}$ when fully cured. Low odor, noncorrosive. Outstanding oil and coolant resistance. Temperature range -65° F to 450° F (-54° C to 232° C) continuous, 500° F (250° C) intermittent. Resists common fluids and excessive vibration.

| Item # | Container Size | 6 + |
|--------|---------------------|------------|
| 82194 | 3.5 oz tube, carded | 18572 |
| 82195 | 13 oz cartridge | |

Permatex[®] Ultra Copper[®] RTV Silicone Gasket Maker

Premium silicone designed to provide reliable, tough, flexible formed-in-place gaskets for mechanical assemblies. Temperature range -65°F to 600°F (-54°C to 316°C) continuous, 700°F (371°C) intermittent.

| Item # | Container Size | P/N | 5+I |
|--------|-------------------|-------|-------|
| 81878 | 3 oz tube, carded | 101BR | 17914 |
| 82751 | 300 ml cartridge | | |

Permatex[®] Ultra Blue[®] RTV Silicone Gasket Maker



Fills gaps up to 0.25" when fully cured. Sensor-safe, low odor, noncorrosive. Outstanding oil resistance and joint movement values. Eight times more flexible than cork/composite gaskets; three times more oil resistant than conventional silicones. Temperature range -65°F to 400°F (-54°C to 204°C) continuous, 500°F (250°C) intermittent. Resists common fluids and excessive vibration.

| Item # | Container Size | P/N | 5 +1 |
|--------|-----------------------------------|------|-------------|
| 81724 | 3.35 oz tube, carded | 77BR | 81805 |
| 85519 | 9.5 oz PowerBead [™] can | | |
| 81725 | 13 oz cartridge | 77C | 17359 |







GASKET MAKERS

when a conventional gasket is out of stock. This

single component, thixotropic gasket maker cures

rapidly for a medium strength, solvent resistant

seal that resists temperatures up to 300°F (149°C)

and fills gaps to 0.050" (primed). Can be used on a

variety of metal surfaces including aluminum. Parts

Permatex[®] Sensor-Safe Blue **RTV Silicone Gasket**

The original Permatex® blue makes reliable "formedin-place" gaskets that resist shrinking, cracking and migrating. Product cures to a strong, flexible rubber that seals flanges against leakage and resists oil and other shop fluids. Coat pre-cut gaskets to increase reliability. Temperature range -65°F to 400°F (-54°C to 204°C) continuous, 500°F (250°C) intermittent. Low volatility. Fills gaps to 0.25" when fully cured.

| Item # | Container Size | P/N | |
|--------|-------------------------|-----|-------|
| 80022 | 3 oz tube, carded | 6BR | 80506 |
| 81860 | 7.25 oz Automatic Tube® | 6MA | |
| 85860 | 7.25 oz PowerBead™ can | | |
| 80628 | 12.9 oz cartridge | 6C | 80580 |

Permatex[®] High-Temp Red (NSF.) **RTV Silicone Gasket**



Formulated for high-temp applications. It replaces almost any cut gasket by making reliable "formedin-place" gaskets that resist cracking, shrinking and migrating caused by thermal cycling. Coat pre-cut gaskets to increase reliability. Temperature range -65°F to 600°F (-54°C to 316°C) continuous, 650°F (343°C) intermittent. Fills gaps to 0.25" when fully cured. MIL-A-46106 B.

| Item # | Container Size | P/N | 6÷ |
|--------|-------------------------|------|-------|
| 81160 | 3 oz tube, carded | 26BR | 81311 |
| 81915 | 7.25 oz Automatic Tube® | | |
| 85915 | 7.25 oz PowerBead™ can | | |
| 81409 | 11 oz cartridge | 26C | 81312 |



Anaerobic Gasket Makers

Permatex® Anaerobic **Gasket Maker**



Permatex® Anaerobic Flange Sealant

Flexible gasketing material ideal for use on rigid, machined flanges. Withstands temperatures to 300°F (149°C). Fills gap of 0.050" (primed) and eliminates the need for preformed gaskets. Ideal for flanges that move in service.

| Item # | Container Size | 8÷1 |
|--------|-----------------------|-------|
| 51531 | 50 ml tube | 17369 |
| 51580 | 300 ml cartridge | |



IIII Ordering number in Canada











27

Urethane Casting Compounds

Castable, nonshrinking liquid urethanes for producing flexible molds, holding fixtures and linings as well as low-volume or discontinued parts.

Devcon® Flexane® 80 Liquid

Medium-viscosity (10,000 cP) urethane fills voids completely and faithfully reproduces mold detail. Cures to semi-rigid rubber (Shore A 87).

| Item # | Container Size |
|--------|----------------|
| 15800 | 1 lb |
| 15810 | 10 lb |

Item #

Devcon® Flexane® 94 Liquid

Container Size

Low-viscosity (6,000 cP) urethane fills voids completely and faithfully reproduces mold detail. Similar to Flexane® 80 Liquid, but cures to a rigid rubber (Shore A 97).



Indicates that either the manual or pneumatic dispenser listed to the right may be used with that size cartridge.











Liquid urethane for edging fabric felt belting used in the papermaking industry as well as potting and encapsulating.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|----------------|--------|
| DF039 | 400 ml cartridge | 15043 (manual) | 15047 |

Devcon® Flex-Add™

Used with Flexane® 80 Liquid to produce a more flexible urethane.

Item #Container Size159408 oz

Devcon® Flexane® Accelerator

Shortens the cure time of Flexane[®] products even in temperatures as low as 32°F (0°C).

| Item # | Container Size |
|--------|-----------------------|
| 15990 | 12 oz |

Devcon® Liquid Release Agent

Silicone release agent produces high-gloss finish, prevents sticking of and damage to Flexane® parts during demolding.

| Item # | Container Size |
|--------|-----------------------|
| 19600 | 1 pt |



| Physical Properties | Flexane® 80 Liquid | Flexane® 94 Liquid | Edge & Seal (1-35) |
|---|--------------------|--------------------|--------------------|
| Color | Black | Black | Black |
| Mix ratio by weight resin: hardener | 77:23 | 69:31 | 80:20 |
| Mixed viscosity c ^p | 10,000 | 6,000 | 5,000 |
| Pot life minutes @ 75°F | 30 | 10 | 3 |
| Specific volume inches%pound | 26.5 | 26.5 | 26.5 |
| Coverage per pound inches 2 @ 1/4" thickness | 106 | 106 | 106 |
| Functional cure hours | 16 | 16 | 1.5 |
| Demolding time hours | 10 | 5 | N / A |
| Cured hardness (ASTM D2240) Shore A | 87 | 97 | 94 |
| Cured shrinkage (ASTM D2566) inch/inch | 0.0018 | 0.0014 | 0.0014 |
| Tensile strength (ASTM D412) psi | 2,100 | 2,800 | 3,300 |
| Tear resistance (ASTM D624) pli | 350 | 415 | 430 |
| Abrasion resistance weight loss ' | 285 | 330 | 250 |
| Maximum elongation (ASTM D412) % | 650 | 500 | 450 |
| Dielectric strength (ASTM D149) volts/mil | 350 | 350 | 350 |
| Maximum continuous service temperature "F wet | 120 | 120 | 120 |
| Maximum continuous service temperature °F dry | 180 | 180 | 180 |

NOTES: ¹ Taber H-18 wheel (mg / 1,000 revolutions @ 1,000 gram load)

| | | Key: | Excellent 🕥 Very Good 🔘 Fair 🚫 Poor |
|---|-------|---|-------------------------------------|
| Chemical Resistance | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% Sulfuric 50% Phosphoric 10% | 00000 | 000000000000000000000000000000000000000 | 00000 |
| ALCOHOLS Methanol Isopropanol | 00 | 0 0 | 0 0 |
| KETONES Acetone Methyl ethyl ketone | 00 | 0 | 0 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | 0 | 0 | 0 |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits | 00 | 00 | 00 |
| SALTS Sodium chloride Trisodium phosphate Aluminum sulfate 10% Sodium carbonate 10% | 0000 | 0000 | 0000 |











Urethane Repair Compounds

Flexible urethane compounds for repairing worn or damaged belting and rubber surfaces subject to wear, impact, abrasion, vibration or expansion.

Devcon® Flexane® 80 Putty

Trowelable urethane for repairing and lining process equipment exposed to wear, abrasion, vibration or expansion/contraction.

| Item # | Container Size |
|--------|-----------------------|
| 15820 | 1 lb |
| 15850 | 4 lb |

Devcon® Flexane® High Performance Putty

Trowelable lining for maximum protection against abrasion, gouging and impact.

Item #Container Size153301 lb

Devcon® Flexane® Fast Cure Putty

Black Flexane[®] Fast Cure thickens to a putty in seconds providing superior flexibility, elongation and adhesion to rubber. Ideal for belt repairs.

| Item # | Container Size | Dispenser | Nozzle |
|--------|------------------|----------------|--------|
| 15049 | 400 ml cartridge | 15043 (manual) | 15047 |

Devcon® Flexane® Fast Cure Liquid

Grey Flexane® Fast Cure Liquid is a convenient, time-saving method of filling expansion joints and repairing rubber.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|----------------|--------|
| 15050 | 400 ml cartridge | 15043 (manual) | 15047 |

Devcon® Flexane® Brushable

High-performance brushable urethane for protection against abrasion and impact. Excellent for repairing/ coating rubber-lined pumps, tanks and valves.

Item #Container Size153501 lb

Devcon® Flexane® Belt Repair Kit

An ideal solution for making fast, permanent emergency repairs to damaged conveyor belts, rubber rollers or other rubber parts.

| ltem # | Container Size |
|--------|-----------------------|
| 15165 | Kit |

Devcon® Cable Cast FR

Flame-retardant urethane for encapsulating/insulating cable jackets; provides superior environmental protection. MSHA approved for the mining industry.

| Item # | Container Size | Dispenser | Nozzle |
|--------|-----------------------|-------------------------------------|----------------|
| 15051 | 400 ml cartridge | 14410 (manual) 14400 (pneumatic) | 14292 14292 |
| 15000 | Jacket Repair Kit | _ | _ |

Devcon® Flexane® Primers

Required for maximum adhesion of Flexane® products.

- FL-10 Primer for all metals.
- FL-20 Primer for rubber, wood, fiberglass and concrete.
- FL-40 Primer for rubber. Ensures ultimate peel strength (greater than 80 psi).

| Item # | Primer | Container Size |
|--------|--------|-----------------------|
| 15980 | FL-10 | 4 oz |
| 15985 | FL-20 | 4 oz |
| 15984 | FL-40 | 4 oz |





Indicates that either the manual or pneumatic dispenser listed to the right may be used with that size cartridge.











URETHANE REPAIR COMPOUNDS

RUBBER REPAIR

| Physical Properties | Flexane® 80 Putty | Flexane® High Performance Putty | Flexane® Fast Cure Putty | Flexane® Fast Cure Liquid | Flexane® Brushable | Cable Cast FR | Flexane [©] Belt Repair Kit |
|--|-------------------|------------------------------------|-----------------------------|------------------------------|-----------------------|---------------|---|
| Color | Black | Black | Black | Grey | Black | Black | Black |
| Mix ratio by weight resin: hardener | 72:28 | 94:6 | 80:20 | 80:20 | 80:20 | 63:37 | 72:28 |
| Mixed viscosity cP | Putty | Putty | Putty | 5,800 | 40,000 | 10,000 | Putty |
| Pot life minutes @ 75°F | 20 | 10 | 8 | 8 | 45 | 10 | 25 |
| Specific volume inches ³ /pound | 23.5 | 23.5 | 23.5 | 26.5 | 26.0 | 22.6 | 23.5 |
| Coverage per pound inches ² @ 1/4" thickness | 94 | 94 | 94 | 106 | 104 | 90 | 94 |
| Functional cure hours | 12 | 16 | 3 | 2 | 24 | 12 | 12 |
| Demolding time hours | N / A | N / A | N / A | N / A | N / A | N / A | N / A |
| Cured hardness (ASTM D2240) Shore A | 87 | 78 | 88 | 94 | 86 | 83 | 87 |
| Cured shrinkage (ASTM D2566) inch/inch | 0.0014 | 0.12 ² | 0.0014 | 0.0018 | 0.23 ² | 0.0014 | 0.0014 |
| Tensile strength (ASTM D412) psi | 1,700 | 4,500 | 2,400 | 3,300 | 3,500 | 2,600 | 1,700 |
| Tear resistance (ASTM D624) pli | 300 | 400 | 275 | 430 | 400 | 325 | 280 |
| Abrasion resistance weight loss 1 | 280 | 140 | 220 | 330 | 90 | NA | 300 |
| Maximum elongation (ASTM D412) % | 300 | 600 | 500 | 450 | 600 | 800 | 300 |
| Dielectric strength (ASTM D149) volts/mil | 350 | 350 | 350 | 350 | 340 | 300 | 350 |
| Maximum continuous wet service temperature "F | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| Maximum continuous dry service temperature °F | 180 | 180 | 180 | 180 | 180 | 180 | 180 |

NOTES: ¹ Taber H-18 wheel (mg / 1,000 revolutions @ 1,000 gram load) ² Due to solvent loss

| | | | | | Key: 🕒 Excel | lent 🕥 Very Good | 🔘 Fair 🛛 Poor |
|---|-----|-------|-------------|-------------|--------------|------------------|---------------|
| Chemical Resistance | | | | | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% Sulfuric 50% Phosphoric 10% | | 00000 | | | 00000 | • | |
| ALCOHOLS Methanol Isopropanol | 0 | 00 | 0 | 0 | 00 | 0 | 0 |
| KETONES Acetone Methyl ethyl ketone | 8 | 00 | 00 | 8 | 00 | 00 | 00 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | 0 | 0 | D D | D D | 0 | D D | 0 |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits | 0 | 00 | 0 | 0 | 00 | 00 | 0 |
| SALTS Sodium chloride Trisodium phosphate Aluminum sulfate 10% Sodium carbonate 10% | 000 | | 0 0 0 | 0 0 0 | | | 0 0 0 |











Products to Extend the Life of Your Processing Equipment

More than 50 years ago, Devcon introduced Plastic Steel[®], a tough, steel-filled epoxy putty, as an alternative to welding and brazing. Today, with the addition of several well-known Permatex[®] product lines, ITW Devcon boasts one of the world's most comprehensive offerings of maintenance and repair products. All these products can be easily applied by plant maintenance personnel with minimal training.

Devcon[®] and Permatex[®] MRO products include:

- Metal repair epoxies designed to extend the life of critical process equipment
- ▼ Flexane[®] urethanes for rubber repair
- Protective coatings that reduce damage from wear and abrasion
- ▼ Floor Savers[™] repair systems for repairing, protecting and skid-proofing facility floors
- Compounds for sealing and removing gaskets
- Emergency repair products for repairing and returning equipment to service in minutes
- Anti-seize and specialty lubricants
- General-purpose and specialty parts cleaners
- Fast Orange[®] waterless lotion and pumice hand cleaners













MRO Product Selector Guide

| MRO Applications | Plastic Steel® Putty (A) | Aluminum Putty (F) | Plastic Steel®(B)/ Aluminum Liquid (F-2) | Titanium Putty | Stainless Steel Putty (ST) | Ceramic Repair Putty | Brushable Ceramic | Wear Guard™ High-Temp / High Impact | Wear Guard™ High-Load, Fine Load / Combo Wear | Magic Bond™ Epoxy Putty | Underwater Repair Putty (UW) |
|---|-----------------------------|-----------------------|--|-------------------|-------------------------------|-------------------------|----------------------|---|---|----------------------------|------------------------------------|
| Acid Resistant Coating | | | | | | | | | | | |
| Casting Repair | | | | | | | | | | | |
| Chemical Resistant Products / Coatings | | | | | | | | | | | |
| Chocking, Leveling Compound | | | | | | | | | | | |
| Coating (Impact, Abrasion) | | | | | | | | | | | |
| Condenser Tube Sheet Coating | | | | | | | | | | | |
| Corrosion Resistant Coating | | | | | | | | | | | |
| Cyclones | | | | | | | | | | | |
| Epoxy (Fast-Cure Repairs) | | | | | | | | | | | |
| Fans / Exhauster Fan Blades | | | | | | | | | | | |
| Holding Fixtures (Making Molds) | | | | | | | | | | | |
| Hoppers (Rebuild & Coat) | | | | | | | | | | | |
| Leaks (Drums, Pipes, Tanks) | | | | | | | | | | | |
| Lining Coal Chutes | | | | | | | | | | | |
| Machinable Repair Material | | | | | | | | | | | |
| Meat and Poultry Plants | | | | | | | | | | | |
| Pipe Elbow Coatings / Linings | | | | | | | | | | | |
| Pulverizers / Mills | | | | | | | | | | | |
| Pump Repairs - Slurry | | | | | | | | | | | |
| Pump Repairs - Water | | | | | | | | | | | |
| Rebuild Worn Threads / Keyways / Metal | | | | | | | | | | | |
| Repairing Engine Blocks | | | | | | | | | | | |
| Shaft Repairs | | | | | | | | | | | |
| Tank Linings | | | | | | | | | | | |
| Tank Repairs (Holes) | | | | | | | | | | | |
| Valve Rebuild / Repairs | | | | | | | | | | | |
| Wet / Damp Surface Bonding | | | | | | | | | | | |











The Key to Successful Repairs

Proper surface preparation and thorough cleaning are essential for the successful application of Devcon repair products and protective coatings.



General Surface Preparation

In general, the following steps will help you properly prepare a surface prior to applying Devcon products:

- Make sure the surface is completely dry. Moisture will adversely affect the strength of the bond to the surface.
- Remove all surface contamination (paint, rust and grime) by abrasive blasting, sanding or other mechanical means.
- 3) Degrease with Devcon Cleaner Blend 300.
- 4) Abrade the surface to roughen it and create a surface profile.
- 5) Use the appropriate Devcon primer.

For detailed surface preparation procedures, refer to the appropriate substrate category.



Metal

To properly prepare a metal surface:

- 1) If the surface is oily or greasy, degrease it with Devcon Cleaner Blend 300.
- Abrasive-blast the surface with 25-40 grit (or coarser) to produce a good surface profile. If you cannot abrasive-blast the surface, use a 60 grit or coarser sandpaper to achieve a similar result.
- 3) Immediately coat the metal surface with Flexane® FL-10 Primer to prevent it from rusting.
- Make repairs as soon as possible after blasting the substrate to avoid oxidation or flash rusting.

Aluminum Surfaces

Oxidation on aluminum surfaces reduces epoxy adhesion. This oxidation film must be removed before repairing aluminum with Devcon Metal Repair Epoxies.

To properly prepare an aluminum surface:

- Remove oxidation by mechanical means such as grit-blasting or by chemical means such as acid etching.
- 2) Follow the General Surface Preparation guidelines.



Rubber

To properly prepare a rubber surface:

- Abrade the surface using a rubber rasp or a grinder with a wire wheel to produce a good surface profile. (Oils and contaminants imbedded in the rubber surface are typically released in this process.)
- Remove all oil and grease from the rubber surface with Devcon Cleaner Blend 300 and an abrasive pad.
- Wipe the surface with a clean, lint-free cloth continuously until black residue is no longer picked up by the white cloth.
- 4) Prime the surface as follows:

Rubber to metal: Coat all metal surfaces (including stainless steel and aluminum) with two coats of Flexane® FL-10 Primer. The primer will significantly improve adhesion of Devcon products to metal.

Rubber to metal (for immersion service): Coat any metal that will be immersed in an aqueous solution with Flexane® FL-10 Primer and Flexane® FL-20 Primer. First apply the FL-10 Primer and let dry for 60 minutes. Next, coat with the FL-20 Primer. Let dry for 30 minutes before applying the Devcon product.

Rubber to rubber: Coat all gum rubbers, neoprene or cured urethanes with a thin coat of Flexane[®] FL-20 Primer. For ultimate peel strength, use FL-40 Primer (on rubber only).

Rubber to concrete: Coat concrete with Flexane[®] FL-20 Primer. Multiple coats may be necessary because concrete is very porous. Let the primer dry for 30 minutes between coats.

Rubber to wood or fiberglass: Coat these surfaces with Flexane® FL-20 Primer. Soft woods will require a second coat due to their absorption characteristics.

When bonding rubber to other surfaces, contact Devcon Technical Service for a recommendation on primers and surface preparation procedures.















Concrete

To properly prepare a concrete surface:

- Degrease the surface with Devcon Cleaner Blend 300 or any water-based emulsifying cleaner and rinse thoroughly. Multiple cleanings may be necessary. Power washers or steam cleaners are very effective and can reduce the number of passes needed to clean the surface. Let the surface dry thoroughly before proceeding.
- 2) Remove any cap-curing agents that were applied to the concrete when it was poured. These agents form a dense, impenetrable finish, making it almost impossible for coatings to adhere to them.
- Shot blast (Blastrac[®]) the concrete to create a porous surface profile. This will improve surface "wetting" and coating or repair product adhesion.



Wet Surfaces

In general, Devcon repair products and protective coatings will not adhere to wet surfaces.

To properly repair a wet surface:

- 1) Review the General Surface Preparation guidelines.
- Thoroughly dry the surface. (If you are using Devcon Underwater Repair Putty (UW), refer to Underwater Surfaces section.)
- 3) Stop all leaks or seepage as follows:
 - ▼ Shut off the flow or pressure;
 - Fit a wooden peg or a sheet metal screw into the hole; or
 - Stuff wax, cork, plumber's caulk, Mortite or a cloth into the opening.

If the leak is caused by corrosion, the sidewall might be weak. Open the orifice until sound metal is exposed and the wall is thick enough to be plugged.

4) Remove surface condensation (sweating) or dampness with a heat gun or similar device.



Underwater Surfaces

To properly prepare an underwater surface:

- 1) Remove all dirt, barnacles, flaking paint or algae/seaweed from the surface.
- 2) Wipe the surface with a clean cloth to remove any film. Although you cannot degrease underwater, wiping and turning a clean cloth will often remove any film from the surface.
- 3) Abrade the surface if possible. (Use a file or other mechanical means.)
- Remove oxidation by mechanical means such as high-pressure water or grit-blasting, or by chemical means such as acid etching.

Devcon Technical Service:

If you have questions, please contact Devcon Technical Service:

1-800-933-8266

Blastrac[®] is a registered trademark of Blastrac, NA.











METAL REPAIR

METAL REPAIR PUTTIES

Devcon Metal Repair Putties

Metal-filled epoxy putties allow fast, economical, permanent repairs to plant and equipment; cure quickly; and resist corrosion and harsh chemicals.



Devcon® Plastic Steel® Putty (A)

The original metal-filled epoxy putty, it is ideal for repairing areas where welding or brazing would be impractical. Can be drilled, tapped and machined. Conforms to the requirements of MIL-PRF-24176C, Type I.

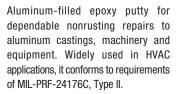
| Item # | Container Size |
|--------|-----------------------|
| 10110 | 1 lb |
| 10120 | 4 lb |
| 10130 | 25 lb |

Devcon[®] Plastic Steel[®] 5 Minute[®] Putty (SF)

Fast-curing, steel-filled epoxy for emergency repairs at temperatures as low as 40°F. Repaired parts can be returned to service within one hour.

Item # Container Size 10240 1 lb

Devcon® Aluminum Putty (F)



| Item # | Container Size |
|--------|-----------------------|
| 10610 | 1 lb |
| 10620 | 3 lb |

Devcon® Titanium Putty

High-performance, nonrusting titanium-reinforced epoxy putty for making repairs that can be precision machined. Withstands heavy loads in harsh chemical environments. Conforms to the requirements of MIL-PRF-24176C, Type I.

| ltem # | Container Size |
|--------|----------------|
| 10760 | 1 lb |
| 10770 | 2 lb |

Devcon® Stainless Steel Putty (ST)

Stainless steel-filled epoxy putty for patching, repairing and rebuilding stainless steel surfaces as well as food processing equipment. Item # Container Size

10270 1 lb

ABS

ABS

Devcon® Bronze Putty (BR)

Bronze-filled epoxy putty for repairing bronze and brass bushings, castings and parts.

Approved by

Item # Container Size 10260 1 lb

American Bureau of Shipping



ABS

ABS

ABS

Devcon® Ceramic Repair Putty

Trowelable, alumina-filled epoxy compound for rebuilding, smoothing and protecting processing equipment exposed to corrosion, erosion, cavitation, chemicals and acids. Conforms to the requirements of MIL-PRF-24176C, Type I.



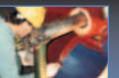
| Item # | Container Size |
|--------|-----------------------|
| 11700 | 3 lb |
| 11730 | 32 lb |

Devcon® Wear Resistant Putty (WR-2)

Smooth, nonrusting, all-purpose epoxy compound for repairs requiring smooth, high-slip finishes (such as lathe beds).

| Container Size |
|-----------------------|
| 1 lb |
| 3 lb |
| |









AR





METAL REPAIR PUTTIES

METAL REPAIR

| Physical Properties | Plastic Steel® Putty (A) | Plastic Steel® 5 Minute® Putty (SF) | Aluminum Putty (F) | Stainless Steel Putty (ST) | Bronze Putty (BR) | Titanium Putty | Ceramic Repair Putty | Wear Resistant Putty (WR-2) |
|--|-----------------------------|--|-----------------------|-------------------------------|----------------------|-------------------|-------------------------|--------------------------------|
| Color | Dark Grey | Dark Grey | Aluminum | Grey | Bronze | Grey | Dark Blue | Dark Grey |
| Mix ratio by weight / volume resin:hardener | 9:1/2.5:1 | 1.7:1/1:1 | 9:1 / 4:1 | 11:1/3.75:1 | 9:1 / 3:1 | 4.3:1/3:1 | 7:1 / 4.3:1 | 9:1 / 4:1 |
| Mixed viscosity cP | Putty | Putty | Putty | Putty | Putty | Putty | Putty | Putty |
| Functional cure hours | 16 | 1 | 16 | 16 | 16 | 16 | 16 | 16 |
| Pot life minutes @ 75°F | 45 | 5 | 60 | 58 | 35 | 21 | 25 | 45 |
| Specific volume inches [®] /pound | 11.9 | 12.2 | 17.5 | 12.4 | 12.4 | 11.7 | 16.4 | 13.9 |
| Coverage per pound inches ² @ 1/4" thickness | 48 | 49 | 70 | 50 | 50 | 47 | 66 | 56 |
| Cured hardness (ASTM D2240) Shore D | 85 | 85 | 85 | 85 | 85 | 87 | 90 | 85 |
| Cured shrinkage (ASTM D2566) inch/inch | 0.0006 | 0.0006 | 0.0008 | 0.0010 | 0.0010 | 0.0010 | 0.0022 | 0.0005 |
| Adhesive tensile shear (ASTM D1002) psi | 2,800 | 2,026 | 2,600 | 2,385 | 2,680 | 2,000 | 2,000 | 2,200 |
| Tensile strength (ASTM D638) psi | 3,220 | 3,100 | 3,680 | 3,340 | 2,640 | 4,000 | 3,900 | 4,300 |
| Compressive strength (ASTM D695) psi | 8,260 | 10,400 | 8,420 | 8,400 | 8,540 | 15,200 | 12,700 | 9,800 |
| Flexural strength (ASTM D790) psi | 5,600 | 7,680 | 6,760 | 5,280 | 6,180 | 7,700 | 6,475 | 6,500 |
| Modulus of elasticity (ASTM D638) psi x 10 ⁵ | 8.5 | 7.5 | 8.0 | 8.0 | 8.0 | 9.5 | 9.0 | 7.5 |
| Coefficient of thermal expansion (ASTM D696) [(in)/(in x [°] F)] x 10.° | 48 | 34 | 29 | 34 | 33 | 22 | 17 | 32 |
| Thermal conductivity (ASTM C177) [(cal x cm)/(sec x cm ² x [°] C)] x 10 ⁻³ | 1.37 | 2.65 | 1.73 | 1.23 | 1.57 | 1.95 | 1.88 | 1.67 |
| Dielectric constant (ASTM D150) 1 kHz | 67.5 | 35.0 | 21.4 | 75.0 | 75.0 | 44.8 | 41.0 | 6.3 |
| Dielectric strength (ASTM D149) volts/mil | 30 | 30 | 100 | 30 | 25 | 56 | 370 | 400 |
| Maximum continuous dry service temperature ${}^{\ensuremath{\mathcal{F}}}$ | 250 | 200 | 250 | 250 | 250 | 350 | 350 | 250 |

| | | | | | | Key: 🕚 Excelle | ent 💽 Very Good | 🔿 Fair 🛛 Poor |
|--|--------|-----|--------|--------|--------|----------------|-----------------|---------------|
| Chemical Resistance | | | | | | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% | 000 | 000 | 000 | 0 | 0 | 0 | | 0 |
| ALCOHOLS Methanol Isopropanol | 0 | 00 | 0 | 0 | 0 | : | : | 0 |
| KETONES Acetone Methyl ethyl ketone | 8 | 00 | 8 | 8 | 0 | 00 | 0 | 0 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | D D | 0 | 00 | D D | D D | : | : | 0 |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits | 0 | 0 | D D | 0 | 0 | : | : | 0 |
| CHLORINATED HYDROCARBONS Perchloroethylene 1-1-1 Trichloroethane | D D | 00 | D D | D D | 0 0 | : | : | 0 |
| SALTS Sodium chloride Trisodium phosphate | 6 | 00 | 6 | 6 6 | 6 6 | • | • | © © |











METAL REPAIR LIQUIDS

Liquids and Metal Casting Compounds

Pourable epoxy compounds provide accurate detail reproduction and are ideal for making molds, patterns, holding fixtures and forming dies.

Devcon® Plastic Steel® Liquid (B)

A pourable steel-filled epoxy that provides accurate detail reproduction in making holding fixtures, light gauge forming dies and molds. Can be drilled, tapped and machined. Qualifies under Federal Specification MMM-A-1754, Adhesive/Sealing.

| Item # | Container Size |
|--------|-----------------------|
| 10210 | 1 lb |
| 10220 | 4 lb |
| 10230 | 25 lb |

Devcon® Aluminum Liquid (F-2)

Aluminum-filled pourable epoxy for making molds, patterns and holding fixtures. It can be drilled, tapped and machined and qualifies under Federal Specification MMM-A-1754, Adhesive/Sealing.

| Item # | Container Size |
|--------|-----------------------|
| 10710 | 1 lb |
| 10720 | 3 lb |

Devcon® Liquid Release Agent

Silicone release agent prevents Devcon's epoxy and urethane compounds from sticking to patterns or mold surfaces.

Item # **Container Size** 19600 1 pt

Devcon® Cleaner Blend 300

Safe, multi-purpose, nontrichloroethane based degreaser for removing heavy grease and oil from metal surfaces. Excellent general-purpose degreaser.

Container Size Item # 19510 1 pt



ARS

ABS

Devcon® Brushable Ceramic

When applied in a 15-20 mil coating, this low-viscosity, alumina-filled, brushable epoxy compound produces a smooth, protective barrier against wear, abrasion, corrosion, erosion and chemical attack.

| ltem # | Container Size |
|--------|-----------------------|
| 11760 | 2 lb (red) |
| 11762 | 12 lb (red) |
| 11763 | 55 lb (red) |
| 11765 | 2 lb (blue) |
| 11767 | 12 lb (blue) |
| 11768 | 55 lb (blue) |
| 11770 | 2 lb (white) |
| | |

Devcon® HVAC Repair (Special F)

Aluminum-filled epoxy for repairing worn or fatigued metals. Ideal for repairing copper compressor coils.

Item # **Container Size** 19770 6.5 oz



Approved by American Bureau of Shipping



tic Stee

Devcon® FasMetal™

High-performance, alumina-filled epoxy for making quick, permanent emergency repairs to pipes, chutes, tanks and bearing housings.



Item # **Container Size**















METAL REPAIR LIQUIDS

METAL REPAIR

| Physical Properties | Plastic Steel®Liquid (B) | Aluminum Liquid (F-2) | HVAC Repair (Special F) | FasMetal™ | Brushable | e Ceramic |
|--|--------------------------|-----------------------|-------------------------|--------------|------------------|------------------|
| Color | Dark Grey | Aluminum | Grey | Grey | Red, Blue | White |
| Mix ratio by weight / volume resin:hardener | 9:1 / 3:1 | 9:1 / 5:1 | 0.9:1 / 1:1 | 1.07:1 / 1:1 | 5.6:1 / 3.4:1 | 8.5:1 / 5.6:1 |
| Mixed viscosity cP | 15 / 25,000 | 15 / 25,000 | 40,000 | Putty | 32,000 | 40,000 |
| Functional cure hours | 16 | 16 | 16 | 1 | 16 | 16 |
| Pot life minutes @ 75°F | 45 | 75 | 60 | 4 | 40 | 21 |
| Specific volume inches ³ /pound | 13.1 | 17.5 | 16.1 | 17.2 | 16.5 | 16.5 |
| Coverage per pound inches ² @ 1/4" thickness | 52 | 70 | 64 | 69 | 7.6 ¹ | 7.6 ¹ |
| Cured hardness (ASTM D2240) Shore D | 85 | 85 | 85 | 90 | 90 | 87 |
| Cured shrinkage (ASTM D2566) inch/inch | 0.0006 | 0.0009 | 0.0008 | 0.0093 | 0.0020 | 0.0020 |
| Adhesive tensile shear (ASTM D1002) psi | 2,800 | 2,700 | 2,500 | 2,000 | 2,000 | 2,000 |
| Tensile strength (ASTM D638) psi | 4,900 | 5,000 | 3,720 | 3,145 | 3,800 | 3,800 |
| Compressive strength (ASTM D695) psi | 10,200 | 9,820 | 8,420 | 12,700 | 15,200 | 15,200 |
| Flexural strength (ASTM D790) psi | 7,480 | 3,540 | 6,260 | 7,700 | 8,000 | 8,000 |
| Modulus of elasticity (ASTM D638) psi x 10 ^s | 8.5 | 7.5 | 7.8 | 8.5 | 9.0 | 9.0 |
| Coefficient of thermal expansion (ASTM D696) [(in)/(in x [°] F)] x 10 ^{-s} | 38 | 50 | 29 | 32 | 19 | 19 |
| Thermal conductivity (ASTM C177) [(cal x cm)/(sec x cm2 x °C)] x 10 ⁻³ | 1.39 | 1.58 | 1.73 | 2.04 | 1.92 | 1.92 |
| Dielectric constant (ASTM D150) 1 kHz | 67.5 | 8.6 | 21.4 | 18.6 | 38.7 | 38.7 |
| Dielectric strength (ASTM D149) volts/mil | 30 | 100 | 100 | 370 | 382 | 382 |
| $\begin{array}{ll} \mbox{Maximum continuous dry} \\ \mbox{service temperature} & \mbox{\mathcal{F}} \end{array}$ | 250 | 250 | 250 | 250 | 350 | 350 |

NOTES: ¹ Coverage (feet ² @ 15 mils)

| | | | | Key: 🕒 Excellent | D Very Good 🔘 Fair 🔕 Poor |
|--|--------|--------|--------|------------------|---------------------------|
| Chemical Resistance | | | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% | 0 0 | 0 0 | 0 0 | 000 | 0 • • |
| ALCOHOLS Methanol Isopropanol | 0 | 0 | 8 | 00 | : |
| KETONES Acetone Methyl ethyl ketone | 0 | 0 | 0 | 00 | 0 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | 0 0 | 0 | 8 | 00 | : |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits | 0 | 0 | 0 | 0 | : |
| CHLORINATED HYDROCARBONS Perchloroethylene 1-1-1 Trichloroethane | 0 | 0 | 0 | 00 | : |
| SALTS Sodium chloride Trisodium phosphate | © © | © © | 0 D | 0.0 | : |











Trowelable and Brushable Wearing Compounds

Nonsagging, alumina bead-filled coatings that protect dry materials handling and storage equipment from abrasion, corrosion and wear.

Devcon[®] Wear Guard[™] High Load

Alumina ceramic bead-filled epoxy system with outstanding abrasion resistance for severe service conditions with particulate greater than 1/8".

| ltem # | Container Size |
|--------|-----------------------|
| 11491 | 9 lb |
| 11490 | 30 lb |

Devcon® Wear Guard™ High Temp

High-density, ceramic bead-filled epoxy system for maximum wear and abrasion resistance in high-temperature applications.

| Item # | Container Size |
|--------|-----------------------|
| 11480 | 30 lb |

Devcon® Wear Guard™ High Impact

High-density, micro-alumina ceramic bead-filled epoxy system with flexible polymers for superior adhesion and protection against extreme impact and flexing.

| ltem # | Container Size |
|--------|-----------------------|
| 11460 | 30 lb |

Devcon® Wear Guard™ Fine Load

High-density, micro-alumina ceramic bead-filled epoxy system for protecting equipment that handles particulate smaller than 1/8".

| Item # | Container Size |
|--------|-----------------------|
| 11470 | 30 lb |

Devcon[®] Wear Guard[™] Ultra

Alumina ceramic bead-filled epoxy system with outstanding abrasion resistance for severe conditions. Ideal for environments experiencing extreme wear.

Item # Container Size 11475 30 lb

Devcon® Combo Wear FC (Fast Cure)

High-tech, three-component compound for quickly repairing processing equipment and returning it to service in as little as 1 1/2 hours.

| Item # | Container Size |
|--------|-----------------------|
| 11450 | 9 lb |



Devcon[®] Wear Guard[™] Epoxy Primer FC

Primer system to enhance adhesion of all Wear and Abrasion compounds.

| Item # | Container Size |
|--------|----------------|
| 11478 | 1.75 lb |

Devcon® Brushable Ceramic

When applied in a 15-20 mil coating, this low-viscosity, alumina-filled, brushable epoxy compound produces a smooth, protective barrier against wear, abrasion, corrosion, erosion and chemical attack.



| Item # | Container Size |
|--------|-----------------------|
| 11760 | 2 lb (red) |
| 11762 | 12 lb (red) |
| 11763 | 55 lb (red) |
| 11765 | 2 lb (blue) |
| 11767 | 12 lb (blue) |
| 11768 | 55 lb (blue) |
| 11770 | 2 lb (white) |

Devcon® Carbide Putty

Silicone carbide-filled epoxy putty for economical protection against sliding wear and abrasion. Ideal for mining applications.

| Item # | Container Size |
|--------|-----------------------|
| 10050 | 3 lb |
| 10080 | 20 lb |

Devcon[®] High-Performance Backing Compound

High-strength epoxy liquid for use in rod, ball, pebble and autogenous mills, as well as in cone and gyratory crushers.

| Item # | Container Size |
|--------|-----------------------|
| 11170 | 20 lb |

Devcon® Tile Adhesive

High-strength, trowelable adhesive that cures at room temperature.

Item #Container Size1149520 lb











WEARING COMPOUNDS

ABRASION-RESISTANT

| Physical Properties | Wear Guard™ High Load | Wear Guard™ High Temp | Wear Guard™ High Impact | Wear Guard™ Fine Load | Wear Guard™ Ultra | Combo Wear FC (Fast Cure) | Brushable Ceramic | High Performance Backing Compound | Tile Adhesive | Carbide Putty |
|--|--------------------------|--------------------------|----------------------------|--------------------------|--------------------------|------------------------------|----------------------|--------------------------------------|---------------|---------------|
| Color | Grey | Grey | Dark Grey | Grey | Grey | Grey | Red, Blue | Red | Light Grey | Grey |
| Mix ratio by weight / volume resin:hardener | 2:1 / 2:1 | 13.7:1 / 6:1 | 2.5:1 / 2.5:1 | 2:1 / 2:1 | 2.15:1:5.65 ¹ | 2:1 / 2:1 | 5.6:1 /3.4:1 | 100:5.94 / 9.9:1 | 1.1:1 / 1:1 | 8:1 / 4:1 |
| Mixed viscosity cP | Putty | Putty | Putty | Putty | Putty | Putty | 32,000 | 10,320 | Putty | Putty |
| Functional cure hours | 6-8 | Heat Cured | 6-8 | 6-8 | 16 | 2-3 | 16 | 8 | 12 | 16 |
| Pot life minutes @ 75°F | 30 | 120 | 30 | 30 | 20 | 7 | 40 | 56 | 240 | 50 |
| Specific volume inches ³ /pound | 12.9 | 14.3 | 12.4 | 12.4 | 11.4 | 12.4 | 16.5 | 17.2 | 19.2 | 15.9 |
| Coverage per pound inches ² @ 1/4" thickness | 50 | 60 | 50 | 50 | 44 | 50 | 7.6 ² | 349 ³ | 76.8 | 64 |
| Cured hardness (ASTM D2240) Shore D | 87 | 87 | 85 | 87 | 87 | 87 | 90 | 92 | 81 | 85 |
| Cured shrinkage (ASTM D2566) inch/inch | 0.0006 | 0.0010 | 0.0006 | 0.0014 | 0.0004 | 0.0005 | 0.0020 | 0.0006 | 0.0010 | 0.0009 |
| Adhesive tensile shear (ASTM D1002) psi | 1,375 | 2,300 | 2,567 | 1,375 | 1,425 | 1,450 | 2,000 | 2,000 | 2,890 | 1,350 |
| Tensile strength (ASTM D638) psi | 4,210 | 4,600 | 4,220 | 4,300 | 4,260 | 4,300 | 3,800 | 7,687 | 2,640 | 2,640 |
| Compressive strength (ASTM D695) psi | 11,000 | 13,200 | 7,250 | 11,000 | 13,910 | 11,000 | 15,200 | 18,850 | 9,620 | 8,160 |
| Flexural strength (ASTM D790) psi | 7,140 | 8,220 | 6,144 | 7,190 | 7,220 | 7,140 | 8,000 | 11,500 | 5,480 | 5,480 |
| Modulus of elasticity (ASTM D638) psi x 10 ^s | 8.5 | 8.5 | 3.36 | 8.5 | 8.5 | 8.0 | 9.0 | 9.5 | 8.0 | 8.0 |
| Coefficient of thermal expansion (ASTM D696) [(in)/(in x ^{(F})] x 10 ⁻⁶ | 32 | 27 | 34 | 34 | 26 | 34 | 19 | 22 | 14 | 14 |
| Thermal conductivity (ASTM C177) [(cal x cm)/(sec x cm ² x °C)] x 10 ⁻³ | 1.75 | 2.14 | 1.81 | 1.81 | 1.78 | 1.75 | 1.92 | N/A | 1.25 | 1.25 |
| Dielectric constant (ASTM D150) 1 kHz | 41.0 | 38.0 | 46.0 | 46.0 | 40.0 | 41.0 | 38.7 | N / A | 46.0 | 25.0 |
| Dielectric strength (ASTM D149) volts/mil | 340 | 310 | 340 | 340 | 330 | 340 | 382 | N / A | 320 | 200 |
| Maximum continuous dry service temperature $~~\mathcal{F}$ | 300 | 450 | 300 | 300 | 300 | 300 | 350 | 250 | 200 | 250 |

NOTES: ¹ Three-part system, beads separate ² Coverage in feet² @ 15 mils ³ Coverage in inches² / 20.4 pound unit

| | | | | | | | Key: | Excellent 🚺 V | 'ery Good 🛛 🔘 Fa | ir 🚫 Poor |
|---|--------|----|--------|--------|----|--------|------|---------------|------------------|-----------|
| Chemical Resistance | | | | | | | | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 000 |
| ALCOHOLS Methanol Isopropanol | 0 | 0 | 0 | 0 | 00 | 80 | : | 8 | 0 | 00 |
| KETONES Acetone Methyl ethyl ketone | 00 | 00 | 00 | 00 | 00 | Ø | 00 | 00 | Ø | 00 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | • | • | • | • | • | • | • | 0 | • | 0 |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits | • | • | • | • | • | 0 | • | 0 | 0 • | 0 |
| CHLORINATED HYDROCARBONS Perchioroethylene 1-1-1 Trichloroethane | D D | : | 0 | 0 | 0 | 0 | : | 0 | 0 0 | 0 |
| SALTS Sodium chloride Trisodium phosphate | 0 0 | • | D D | D D | 0 | D D | • | 0 | 0 0 | 0 |











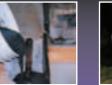
FLOOR REPAIR & RESURFACING



Floor Repair and Resurfacing Product Selector Guide

| Flooring Applications | Floor Patch™ | Floor Patch™FC | Ultra Quartz™ | Floor Patch [™] Resurfacer | Deep Pour Grout™ | Concrete Crack Repair | Epoxy Concrete Sealer | Epoxy Coat™ 7000 Non VOC | Epoxy Coat™ 7000 AR | Floor Grip™ |
|--|--------------|----------------|---------------|--|---------------------|--------------------------|--------------------------|-----------------------------|------------------------|-------------|
| Acid-Resistant Coating | | | | | | | | | | |
| Anchoring Bolts in Concrete | | | | | | | | | | |
| Anti-Skid Floors/Ramps/Docks | | | | | | | | | | |
| Chemical Containment Coatings | | | | | | | | | | |
| Chocking Equipment | | | | | | | | | | |
| Coatings (Impact, Abrasion) | | | | | | | | | | |
| Crack Filling | | | | | | | | | | |
| Expansion Joints | | | | | | | | | | |
| Floor Coating | | | | | | | | | | |
| Floor Hole-Filling & Patching | | | | | | | | | | |
| Floor Resurfacing (Up to 1") | | | | | | | | | | |
| Leveling Equipment | | | | | | | | | | |
| Leveling Floors | | | | | | | | | | |
| Metal Coatings | | | | | | | | | | |
| Non-Skid Floor Coating (with Safe-T-Grit [™]) | | | | | | | | | | |
| Wet / Damp Surface Coatings | | | | | | | | | | |











Floor Repair/Patching Compounds

100% solids epoxy-based polymers for patching, rebuilding and resurfacing concrete, brick, stucco and block.



Devcon® Floor Patch™

All-purpose, easy-to-mix and apply concrete patching compound. With a compressive strength of 8,000 psi, Floor Patch[¬], provides three times the typical strength of concrete.

| Item # | Container Size |
|--------|----------------|
| 13100 | 10 lb |
| 13120 | 40 lh |

Devcon[®] Floor Patch[™] FC (Fast-Cure)



With this fast-curing version of Floor Patch", repaired areas can be back in service in 3 hours.

| ltem # | Container Size |
|--------|-----------------------|
| 13110 | 10 lb |

Devcon® Floor Patch™ Resurfacer

A three-part filled epoxy system for concrete floors where aggregate is exposed. This self-leveling product mixes easily, is ideal for repairing damaged concrete and rebuilding to depths of 1/4" to 1".

| ltem # | Container Size |
|--------|-----------------------|
| 13130 | 41 lb |

Devcon[®] Floor Savers[™] Concrete Crack Repair

A self-leveling urethane compound designed to repair cracks and gaps in concrete – quickly and easily. Grey in color and cartridge fits in a standard caulking gun.

| Item # | Container Size |
|--------|------------------|
| 13400 | 250 ml cartridge |

Anti-Skid Additives

Granular additives used with Devcon floor coatings to produce anti-slip surfaces for worker safety.

Devcon[®] Safe-T-Grit[™]

Additive that can be mixed into any floor coating to produce a non-skid surface. Stays in suspension and prevents accidental slips and falls.

| Item # | Container Size |
|--------|-----------------------|
| 12570 | 2 lb |

Devcon® Floor Grip™

Heavy-duty epoxy compound with silicone carbide granules produces an exceptional non-skid surface on walkways, ramps, loading docks and stairs. Excellent adhesion to concrete, brick, steel, aluminum and wet surfaces. Can be applied at temperatures as low as 40°F.

| Item # | Container Size |
|--------|-----------------------|
| 13090 | 2 gal |



Devcon[®] Ultra Quartz[™]

Heavy-duty, trowelable premium floor patching system with excellent chemical resistance. System includes a primer for superior adhesion to cured concrete or other surfaces.

Item #Container Size1355035 lb

Devcon[®] Deep Pour Grout[™]

Filled epoxy grout for pouring machinery mounting pads to 6" deep and rebuilding worn concrete. Easy to mix and self-leveling.

| ltem # | Container Size |
|--------|-----------------------|
| 13800 | 50 lb |



Floor Coatings

Epoxy floor coatings for protecting plant floors, platforms, walkways and ramps against acids, alkalis and solvents.

Devcon[®] Epoxy Coat[™] 7000 Non VOC

100% solids self-leveling coating for smooth or mildly spalled concrete. Produces an attractive, durable, chemical-resistant finish. Silica aggregate can be added to rebuild floors by 1/16" or more.

Item # Container Size 12710 2 gal

Devcon[®] Epoxy Coat[™] 7000 AR (Acid Resistant)

Novolac non-VOC epoxy coating provides superior resistance to concentrated acids (including 98% sulfuric) and chemicals. Excellent adhesion to concrete surfaces. Ideal for use around chemical storage tanks, dike walls and containment areas.

| Item # | Container Size |
|--------|-----------------------|
| 12750 | 2 gal |

Devcon® Epoxy Concrete Sealer

Self-leveling, non-VOC clear epoxy sealer can be used as a primer on damp surfaces. Easily applied by brush, roller or squeegee at temperatures as low as 40°F. Outstanding resistance to chemicals, acids, alkalis and hydrocarbons.

| Item # | Container Size |
|--------|-----------------------|
| 12560 | 2 gal |











FLOORING PRODUCTS

FLOOR REPAIR & RESURFACING





| Physical Properties | Floor Patch™ | Floor Patch™FC | Ultra Quartz™ | Floor Patch™ Resurfacer | Deep Pour Grout™ | Concrete Crack Repair | Epoxy Concrete Sealer | Epoxy Coat [®] 7000 Non VOC | Epoxy Coat™ 7000 AR | Floor Grip™/ Safe-T-Grit™ |
|--|--------------------------|---------------------------|---------------------------|---|----------------------------|-------------------------------|--------------------------|---|------------------------|------------------------------|
| Coverage per unit feet ² @ thickness | 18@0.25" / 40 lb unit | 4.5@0.25" / 10 lb unit | 13@ 0.25" / 35 lb unit | 568 inches ³ / 41 lb unit | 640 inches³/ 50 lb unit | 20.3 Lft @ 0.25"/ 250 mils | 400 @ 8 mils | 400 @ 8 mils | 200 @ 16 mils | 200 @ 16 mils |
| Mixed viscosity cP | Putty | Putty | Putty | 5,000 | 13,000 | 3,250 | 2,000 | 2,000 | 3,600 | 2,000 |
| Minimum application temperature °F | 60 ~ 90 | 60 ~ 90 | 60 ~ 90 | 50 ~ 90 | 50 ~ 90 | 50 ~ 90 | 40 ~ 90 | 55 ~ 90 | 60 ~ 90 | 40 ~ 90 |
| Pot life minutes @ 75°F | 45 | 15 | 60 | 40 | 40 | 1.5 | 60 | 55 | 36 | 50 |
| Functional cure hours | 16 | 3 | 16 | 16 | 16 | 45 | 24 | 24 | 24 | 24 |
| Cured hardness (ASTM D2240) Shore D | 85 | 85 | 95 | 85 | 87 | 53 | 85 | 85 | 85 | 85 |
| Maximum continuous service temperature °F | 250 | 250 | 250 | 180 | 180 | 250 | 180 | 180 | 200 | 250 |
| % Solids | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

| | | | | | | | Key: 🕚 | Excellent 💽 V | /ery Good 🛛 🔘 Fa | air 🔕 Poor |
|--|-----|-----|----|--------|-----|-----|--------|---------------|------------------|------------|
| Chemical Resistance | | | | | | | | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% | 000 | 000 | 8 | ଷଷଷ | 000 | N/A | 0 | 000 | 8 | 000 |
| ALCOHOLS Methanol Isopropanol | 8 | 8 | 8 | 80 | 00 | N/A | 8 | 8 | 80 | 00 |
| KETONES Acetone Methyl ethyl ketone | 00 | 88 | 00 | 00 | 88 | N/A | 80 | 88 | 80 | 88 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | 8 | 8 | : | 8 | 8 | N/A | 8 | : | 8 | 0 |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits | 8 | 8 | : | Ø • | 8 | N/A | 8 | 0 | : | 0 |
| CHLORINATED HYDROCARBONS Perchloroethylene 1-1-1 Trichloroethane | 0 | 8 | : | 00 | 00 | N/A | : | 0 | 00 | : |
| SALTS Sodium chloride Trisodium phosphate | : | : | : | 8 | 0 | N/A | 0 | 0 | : | 0 |

-









Emergency Repair Products

These epoxy compounds cure rapidly — even under water — to form strong, permanent repairs, minimizing spills due to leaks or accidental punctures as well as remediation costs.

Devcon[®] Magic Bond[™] Epoxy Putty

Seals leaks and repairs gouges in steel, aluminum, wood, fiberglass, concrete and ceramics. Two-color stick ensures thorough mixing. Cures rock-hard in 30 minutes. Can be painted, sanded, machined, tapped or drilled.

| Item # | Container Size |
|--------|-----------------------|
| 11600 | 4 oz stick |

Devcon® Zip Patch™

Easy-to-use adhesive patch kit for permanent waterproof repairs to pipes, tanks and drums. Hardens in minutes at room temperature.

| Item # | Container Size |
|--------|----------------|
| 11500 | 4" x 9" patch |

Devcon® Underwater Repair Putty (UW)

Water-resistant putty for repairing, patching and rebuilding equipment in underwater or habitually wet environments.

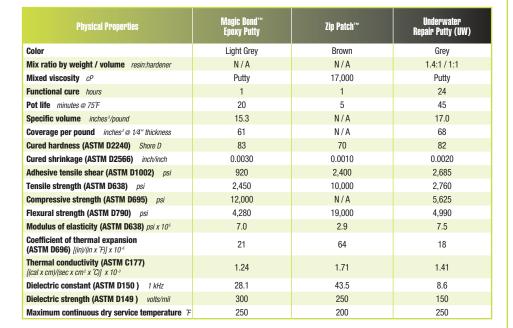
| Item # | Container Size |
|--------|----------------|
| 11800 | 1 lb |

Devcon[®] Magic Sorb[™] Spill Cleanup Products

Ideal for containment and cleanup of chemical, acid and hydrocarbon spills.

| Item # | Container Size |
|--------|-----------------------|
| 48000 | Bag 25 lb |
| 48100 | Sock 3" diameter x 42 |





| | Key: | Excellent Very Goo | d 🔿 Fair 🛇 Poor |
|--|--------|---------------------|-----------------|
| Chemical Resistance | | | |
| ACIDS Acetic 10% Hydrochloric 10% Sulfuric 10% | 000 | 0 | 000 |
| ALCOHOLS Methanol Isopropanol | 0 | 0 | 0 |
| KETONES Acetone Methyl ethyl ketone | 0 | 0 | 0 |
| ALKALIS Ammonium hydroxide 20% Sodium hydroxide 10% | D D | 0 | 0 |
| HYDROCARBONS Gasoline (unleaded) Mineral spirits | D D | 00 | 0 |
| CHLORINATED HYDROCARBONS Perchloroethylene 1-1-1 Trichloroethane | 0 | 0 | 0 |
| SALTS Sodium chloride Trisodium phosphate | 00 | 0 | 0 |





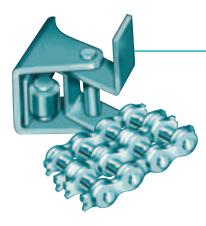






<u>LUBRICANTS</u>

ANTI-SEIZE & LUBRICANTS



Permatex[®] Anti-Seize Lubricant

A heavy-duty blend of aluminum, copper and graphite lubricants in a petroleum base. Use during assembly to prevent galling, corrosion and seizing and to assure easier disassembly. An inert formulation, it will not evaporate or harden in extreme temperatures. Salt-, corrosion- and moistureresistant. Temperature range -60°F to 1,600°F (-51°C to 871°C). Non-aerosol version meets MIL-SPEC A-907. ▲ NFPA Fire Code 30B: Level 3 (aerosol).

| Item # 80071 80078 | Container Size 4 oz brush-top bottle 8 oz brush-top bottle | P/N 133K | 80558 |
|---------------------------------|---|--------------------|--------------|
| 81464 | 12 oz aerosol can, 8.5 oz net wt | 133MA | |
| 80208 | 16 oz brush-top bottle | 767 | 17511 |

Permatex[®] Anti-Seize & Lubricants

Permatex[®] Anti-Seize Compounds protect mated metal parts against in-service rusting, corrosion, friction and galling. Made to serve the demanding needs of even the most severe industrial environments. They reduce wrench torque and ease assembly and disassembly of threaded, slip-fit and press-fit connections. Depend on Permatex[®] Anti-Seizes to reduce friction and wear, even at temperatures up to 2,400°F (1,316°C).

Permatex[®] Lubricants and Penetrants are formulated to protect and lubricate a wide array of parts and components.

Permatex[®] Copper Anti-Seize Lubricant

A premium quality copper anti-seize and thread lubricant that may be used to prevent seizing, corrosion and galling where high temperature conditions exist. Temperature range -30°F to 1,800°F (-34°C to 982°C). Provides good electrical conductivity. Meets MIL-SPEC A-907.

| Item # | Container Size | 8+1 |
|--------|------------------------|-------|
| 09128 | 8 oz brush-top bottle | 09127 |
| 31163 | 16 oz brush-top bottle | 09124 |

Permatex® Nickel Anti-Seize Lubricant

Copper-free anti-seize lubricant that protects metal parts from seizing and galling at temperatures up to 2,400°F (1,316°C). Ideal for use under conditions of extreme pressure and temperature and with stainless steel, titanium and nickel alloys.

| Item # | Container Size | P/N |
|--------|------------------------|-----|
| 77124 | 8 oz brush-top bottle | 771 |
| 77164 | 16 oz brush-top bottle | 771 |

Permatex[®] Food Grade Anti-Seize Lubricant



A non-drying, non-metallic, PTFE-fortified syntheticbased lubricant that is NSF registered H1, and Kosher approved. Protects metal parts from rust, corrosion, seizing and galling up to 900°F (482°C). Use on threaded connections to lubricate, seal and prevent galling, wear and friction. Also lubricates machine parts, press fits, shafts and more. Effective on stainless steel, aluminum, iron, galvanized copper, brass, plastic and fiberglass.

Item #Container Size824488 oz brush-top bottle

Permatex® Dielectric Grease

Protects electrical connections and wiring from salt, dirt and corrosion. Extends the life of bulb sockets. Prevents voltage leakage around any electrical connection. Also prevents spark plugs from fusing to boots. Required for modern high-energy ignition systems.

| Item # | Container Size | 5 +1 | | |
|--------|-------------------|-------------|--|--|
| 22058 | 3 oz tube, carded | 22064 | | |



Ordering number in Canada











Gasket Sealants and Remover



Permatex[®] Form-A-Gasket[®] No. 1 Sealant

Reliable paste-like gasket sealant/dressing/coating. Form-A-Gasket® No. 1 sets quickly. Recommended for rigid, permanent assemblies. Use to 400°F (204°C). Resistant to gasoline and other solvents. Conforms to MIL-S-45180 D, Type I.

| Item # | Container Size | P/N |
|--------|-----------------------|-----|
| 80003 | 11 oz tube, boxed | 1C |

Permatex® Form-A-Gasket® No. 2 Sealant

Reliable paste-like gasket sealant/dressing/coating. Form-A-Gasket[®] No. 2 sets more slowly to a pliable film best suited for non-rigid, vibrating assemblies. Use to 400°F (204°C). Resistant to gasoline and other solvents. Conforms to MIL-S-45180 D, Type II.

| Container Size | P/N | 5+1 |
|---------------------|--|--|
| 1.5 oz tube, carded | 2AR | |
| 3 oz tube, carded | 2BR | 80500 |
| 11 oz tube, boxed | 2C | |
| | 1.5 oz tube, carded 3 oz tube, carded | 1.5 oz tube, carded2AR3 oz tube, carded2BR |

Permatex[®] Aviation Form-A-Gasket[®] No. 3 Sealant

Non-hardening liquid gasket sealant/dressing/coating is a thin, brushable dressing or sealer for close-fitting parts. Suitable for continuous temperatures to 400°F (204°C). Resistant to antifreeze, aviation fuels, high-detergent oils and lubricants. Conforms to MIL-S-45180 D, Type III.

| Item # | Container Size | P/N | 5+1 |
|--------|-----------------------|-----|-------|
| 80017 | 16 fl oz bottle | 3D | 80502 |

Ordering number in Canada







Permatex[®] 1372 High Temperature

intermittent. Resists common shop fluids.

Container Size

Permatex[®] High Tack[™]

Spray-A-Gasket[®] Sealant

▲ NFPA Fire Code 30B: Level 3.

9 oz net wt

recommended for silicone gaskets.

Container Size

4 oz brush-top bottle

Container Size

12 oz aerosol can/

Permatex[®] Low VOC Gasket Remover

Removes all solvent-based, anaerobic and

formed-in-place gaskets as well as gasket

sealant products. Non-flammable, low VOC

formula. Fast-foaming action and bottle-top

brush-tip allow easy cleaning. This product is NOT

7 fl oz tube, boxed

Slow setting, non-hardening, high temperature sealant.

Especially recommended for heavy-duty applications.

Temperature range -65°F (-54°C) to 600°F (315°C)

Red colored, all-purpose sealant that holds even the

heaviest of gaskets in place during assembly. Seals and

bonds rubber, cork, paper, felt and metal gaskets.

Sets quickly to a very tacky film. Suitable to 500°F

(260°C). Contains no ozone-depleting compounds. Resists gasoline, oil, kerosene, propane and butane.

P/N

99MA

Sel.

80546

Form-A-Gasket® Sealant

Item #

80088

Item #

80065

Item #

80645

SPECIALTY MAINTENANCE

Specialty Maintenance

Permatex[®] products for specialized maintenance as well as specially packaged products for general maintenance.

Permatex[®] Prussian Blue

Aids precision fitting of machined surfaces. Locates high spots on bearings, valves and other close-to-tolerance components. Non-drying. Easy cleanup.

| Item # | Container Size | P/N | 6 +1 |
|--------|-----------------------|-----|-------------|
| 80038 | .75 fl oz tube | 35V | 80518 |



Permatex[®] Counterman's Choice Medium Strength Threadlocker Blue

An all-purpose, medium strength threadlocker. Ideal for all nut and bolt applications 1/4" to 3/4" (6mm to 20mm).

Item # Container Size 09978 1 g pouch

Permatex[®] Counterman's Choice High Strength Threadlocker Red

A permanent, high strength threadlocker that is applied to fasteners 3/8" to 1" (10mm to 25mm) in size before assembly.

Item # Container Size 09979 1 g pouch

Permatex[®] Counterman's Choice Anti-Seize Lubricant

Heavy-duty blend of aluminum, copper and graphite lubricants in a petroleum base. Use during assembly to prevent galling, corrosion and seizing.

| ltem # | Container Size |
|--------|----------------|
| 09975 | 5 g pouch |

I Ordering number in Canada





47

CONTRACTOR OF THE OWNER

Permatex® Hand Cleaners

You need a waterless hand cleaner that really cleans – without turning your hands into sandpaper. You need the strength to remove grease, grime, paint, adhesives and all other soils your working hands get into - plus conditioners to prevent your hands from cracking and drying out. Permatex® hand cleaners are the choice of working hands. For over 50 years, Permatex[®] has offered high-quality hand cleaners and has maintained a leadership position through innovation and a concern for users' needs. Wherever hands are getting dirty, there's a place for Permatex® hand cleaners. To meet your growing needs, Permatex® offers a broad selection of product formulations and sizes.

Permatex[®] Fast Orange[®] Pumice and Smooth Lotion Hand Cleaners

Industrial grade, biodegradable*, waterless, petroleum solvent-free hand cleaner. It contains no harsh chemicals. mineral oils or ammonia that can sting cuts and abrasions. Pure, fresh-smelling natural citrus power does the cleaning while aloe, lanolin, glycerin and jojoba condition and protect skin. Fast Orange® gently deep cleans the toughest dirt and grease.

Pumice Lotion

| Item # | Container Size | 6 +1 |
|--------|--------------------------|-------------|
| 25108 | 7.5 fl oz bottle | 20857 |
| 25116 | 15 fl oz squeeze bottle | 20859 |
| 25219 | 1 gallon bottle w/pump | 20861 |
| 25104† | 1 gallon flat-top bottle | |

Smooth Lotion

| Item # | Container Size | 5+ |
|--------|--------------------------|-------|
| 23108 | 7.5 fl oz bottle | 20851 |
| 23116 | 15 fl oz squeeze bottle | 20853 |
| 23218 | 1 gallon bottle w/pump | 20855 |
| 23104+ | 1 gallon flat-top bottle | |

IIII Ordering number in Canada

Biodegradable according to 40 CFR 796.3240

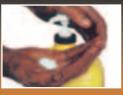
† For use with 95140 Universal Dispenser







Wipes





HAND CLEANERS

Permatex[®] Fast Orange[®] Hand Cleaner Wipes

Fast Orange[®] Hand Cleaner Wipes remove the toughest grease, tar, grime, ink, paints, sealants, adhesives and other difficult soils. Each pre-moistened wipe has a textured surface on one side that is ideal for cleaning heavy-duty soils from hands, tools and work areas. The wipes also have a smooth side for general purpose cleaning.

Item #Container Size2507272-count bucket

DL[®] Permatex[®] Trounce[®] Lotion and Hand Cleaner

Pleasantly scented with fine ground pumice for deep scrubbing to remove the most difficult soils. This fast-acting formula won't irritate hands or leave a greasy residue. Professional strength.

| Item # | Container Size |
|--------|-----------------|
| 21218 | 1 gallon bottle |
| | w/pump |



Universal Dispenser

The 95140 Universal dispenser allows for metered use of all Permatex[®] Hand Cleaners in professional size containers (noted with †). Consistently controls the amount of hand cleaner dispensed, cutting down on unnecessary waste. Designed to offer years of trouble-free, repeated use.

Item #Container Size95140universal dispenser

Wall-Mounted Wire Bracket

Convenient wall-mounted wire bracket for out-ofthe-way storage of your favorite gallon of Permatex[®] hand cleaner.

Item # Container Size 90128 wire bracket



† For use with 95140 Universal Dispenser



INDEX

ITEM NUMBERS

| ltem # Page | | | ltem # Page | | ltem # Page | | | Item # Page |
|-------------|----------|----------|-------------|----------|-------------|----------|----------|-------------|
| 09128 46 | 1147840 | 14258 8 | 144156 | 18300 12 | 25104 48 | 56725 21 | 74001 15 | 81878 26 |
| 09975 47 | 11480 40 | 14260 6 | 144176 | 18301 12 | 25108 48 | 56750 21 | 77BR26 | 81913 23 |
| 09978 47 | 11490 40 | 14265 6 | 14500 9 | 18305 12 | 25116 48 | 59225 21 | 77C26 | 81915 27 |
| 09979 47 | 11491 40 | 14270 6 | 14501 9 | 18306 12 | 25219 48 | 59235 21 | 767 46 | 82 23 |
| 1C 47 | 11495 40 | 14272 8 | 14503 9 | 18401 12 | 25224 26 | 6BR27 | 771 46 | 82080 26 |
| 14D22 | 11500 45 | 14277 6 | 145109 | 18402 12 | 26201 18 | 6C 27 | 77124 46 | 82180 26 |
| 14H22 | 11600 45 | 14278 6 | 14630 6 | 18406 12 | 26210 18 | 6MA 27 | 77164 46 | 82194 26 |
| 16BR23 | 11700 36 | 14280 15 | 14900 9 | 18705 12 | 26225 18 | 66BR23 | 80 23 | 82195 26 |
| 16C 23 | 11730 36 | 14285 15 | 15000 30 | 18706 12 | 26250 18 | 66C23 | 80003 47 | 82448 46 |
| 101BR26 | 11760 38 | 14287 15 | 15043 15 | 19510 38 | 27005 19 | 60925 20 | 80011 47 | 82751 26 |
| 133K 46 | 11762 38 | 14291 15 | 15047 15 | 19600 28 | 27010 19 | 60950 20 | 80015 47 | 85080 26 |
| 133MA 46 | 11763 38 | 14292 15 | 15049 30 | 19650 10 | 2711018 | 62001 20 | 80016 47 | 85224 26 |
| 10050 40 | 11765 38 | 14293 15 | 15050 30 | 19770 38 | 27125 18 | 62050 20 | 80017 47 | 85519 26 |
| 10080 40 | 11767 38 | 14300 10 | 15051 30 | 2AR47 | 27150 18 | 6245 23 | 80022 27 | 85860 27 |
| 10110 36 | 11768 38 | 14310 6 | 15165 30 | 2BR 47 | 27225 18 | 64050 20 | 80038 47 | 85913 23 |
| 10120 36 | 1177038 | 14315 6 | 15250 28 | 2C 47 | 27250 18 | 66050 20 | 80045 22 | 85915 27 |
| 10130 36 | 11800 45 | 14320 10 | 15260 28 | 26BR27 | 27725 18 | 68025 20 | 80050 23 | 99MA 47 |
| 10210 38 | 12560 43 | 14324 10 | 15330 30 | 26C 27 | 27750 18 | 68050 20 | 80065 47 | 90128 49 |
| 10220 38 | 12570 43 | 14330 10 | 15350 30 | 21218 49 | 29025 18 | 70144 14 | 80071 46 | 95140 49 |
| 10230 38 | 12710 43 | 14340 10 | 15800 28 | 21425 23 | 29050 18 | 70145 14 | 80078 46 | DA0076 |
| 10240 36 | 12750 43 | 14345 10 | 15810 28 | 22058 46 | 29208 26 | 70161 14 | 80088 47 | DA0126 |
| 10260 36 | 13090 43 | 14350 6 | 15820 30 | 22225 18 | 29247 26 | 70213 14 | 80208 46 | DA0326 |
| 10270 36 | 13100 43 | 14355 6 | 15850 30 | 22250 18 | 3D 47 | 70350 14 | 80628 27 | DA03310 |
| 10610 36 | 13110 43 | 14360 6 | 15940 28 | 23104 48 | 35V 47 | 70361 14 | 80632 22 | DA03410 |
| 10620 36 | 13120 43 | 14363 10 | 15980 30 | 23108 48 | 31163 46 | 70450 14 | 80633 22 | DA0516 |
| 10710 38 | 13130 43 | 14366 10 | 15984 30 | 23116 48 | 33694 26 | 70461 14 | 80645 47 | DA0526 |
| 10720 38 | 13400 43 | 14367 10 | 15985 30 | 23218 48 | 48000 45 | 70650 14 | 80855 23 | DA16010 |
| 10760 36 | 13550 43 | 14385 10 | 15990 28 | 24005 19 | 48100 45 | 70661 14 | 81158 23 | DA29010 |
| 10770 36 | 13800 43 | 14386 10 | 18000 15 | 24010 19 | 51D22 | 70750 14 | 81160 27 | DA29110 |
| 10780 38 | 14165 10 | 14387 10 | 18100 12 | 24105 26 | 51531 27 | 70761 14 | 81173 23 | DA29510 |
| 11170 40 | 14166 10 | 14388 10 | 18101 12 | 24163 22 | 51580 27 | 71150 14 | 81409 27 | DA30710 |
| 11410 36 | 14200 6 | 14389 10 | 18200 12 | 24210 18 | 51813 27 | 71161 14 | 81464 46 | DA30910 |
| 11420 36 | 14210 6 | 14390 10 | 18201 12 | 24225 18 | 51817 27 | 71940 14 | 81724 26 | DA46110 |
| 11450 40 | 14240 6 | 14400 15 | 18204 12 | 24250 18 | 51845 27 | 72150 14 | 81725 26 | DA46210 |
| 11460 40 | 14250 6 | 14401 15 | 18205 12 | 24325 18 | 54550 22 | 72161 14 | 81731 23 | DA9998 |
| 11470 40 | 14251 6 | 14409 15 | 18206 12 | 24350 18 | 56521 21 | 72250 14 | 81850 23 | DF03928 |
| 11475 40 | 14255 6 | 14410 15 | 18210 12 | 25072 49 | 56525 21 | 72261 14 | 81860 27 | |











- 50

MSDS / TDS

You can also access MSDSs and TDSs from our website: www.devcon.com.

Warranty

Devcon will replace any material found to be defective. Because storage, handling and application of this material are beyond its control, Devcon accepts no liability for the results obtained.

Disclaimer

All information is based on laboratory testing and is not intended for design purposes. ITW Devcon makes no representations or warranties of any kind concerning this data.











51

Technical Services: **1-800-933-8266**

30 Endicott Street Danvers, MA 01923 TEL: (978) 777-1100 FAX: (978) 774-0516 www.devcon.com Edition 7

© 2011 ITW Devcon All rights reserved. Except where noted, all trademarks are the property of Illinois Tool Works Inc. CAT-10B





