Devcon®

Chemical™ Concepts
Our expertise is your solution.

chemical-concepts.com
800.220.1966
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Wear & Abrasion Solutions

Mining & Coal Preparation | Cement Processing | Coal-Fired Power Plants | Pulp & Paper | Steel Processing

ITW

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Product Technologies

Wearing Compounds

Specially formulated wear-resistant epoxy coatings that protect dry materials handling and storage equipment from sliding abrasion, impact and wear. These products are trowelable, non-sag putties available in large particulate, high impact, and high temperature formulas. Tile Adhesives are high strength, room temperature curing, trowelable adhesives that bond ceramic tiles to metal.

Belting and Rubber Repair Compounds

Flexible urethane structural technologies for repairing worn or damaged SBR conveyor belts, rubber lined equipment such as pipes and tanks in mines, quarries, and coal-fired power plants. These products are in a non-sag putty for patching and repairing linings along with self-leveling thixotropic versions that create a smooth surface for repairing conveyor belts.

Corrosion Repair Compounds

Ceramic filled epoxy technology to make permanent repairs to pumps, shafts, pipes, and tanks where a corrosion-resistant polymer is needed to protect all metals against corrosion and erosion in slurry applications. These products apply easily with spray, a brush or in a creamy putty consistency that allows you to be back in service within 3-5 hours.

Metal Repair Epoxies

Metal-filled epoxy technology that allows for fast, economical, permanent repairs to power plant and mining equipment. The epoxies cure quickly; can be machined, tapped and corrosion resistant to harsh chemicals. These products are available in liquid formulas that can be used for mold patterns, holding fixtures and forming dies.

Wear-resistant, Abrasion-resistant Coatings

Specially formulated wear-resistant epoxy coatings that protect dry materials handling and storage equipment from abrasion, corrosion and wear. The DFense Blok™ product line is truly an advanced epoxy technology with quicker functional cure times and better abrasion resistance.

Devcon® DFense Blok™

An easy-to-mix bead-filled epoxy compound formulated to significantly outlast traditional wear and abrasion products while providing superior protection.

- 4X better abrasion resistance than competition
- 7X better drop impact strength than ceramic tile

Item #	Size:
11330	30 lb

Devcon® DFense Blok™ Fast Cure (FC)

A bead-filled epoxy compound that allows equipment to be returned to service in 2 hours.

- Non-sagging , good adhesion
- Withstands operating temperature as high as 300°F

Item #	Size:
11350	9 lb

Devcon® DFense Blok™ Quick Patch

The only ceramic bead-filled wear and abrasion resistant epoxy for emergency repair.

- Eliminates down-time with exceptionally fast cure
- Repairs holes, leaks and cracks

Item #	Size:
11320	1 lb

Devcon® DFense Blok™ Surface Wetting Agent

A thixotropic epoxy gel system that improves the ease of application and cured adhesion properties of DFense Blok™.

- Zero wait time before applying DFense Blok™
- Orange color for easy visual inspection

Item #	Size:
11340	1 lb

Devcon® DFense Blok™ Power Mixer

Recommended for most effective way to thoroughly mix DFense Blok™ Wearing Compound. Can be used with any of our 5 gallon pail wearing compounds.

- Durable steel paddle with three blades; 2X faster than drill-style mixers
- Plugs into standard 120V outlet.

Item #	Size:
11301	5 Gallon

Watch our Impact Test!

Technical Information

Physical Properties	Devcon® DFense Blok™	Devcon® DFense Blok™ Surface Wetting Agent	Devcon® DFense Blok™ Fast Cure (FC)	Devcon® DFense Blok™ Quick Patch
Color	Grey	Orange	Grey	Grey
Mix ratio by weight / volume resin:hardener	2:1 / 100:45	2:1/100:44	2:1/2:1	1:1/1:1
Mixed viscosity cP	Putty	Thixotropic Gel	Putty	Putty
Functional cure hours	4-5	4-5	2-3	30 minutes
Pot life minutes @ 75˚F	25	12-15	15	4
Specific volume inches^3 /pound	12.6	24.7	13.5	14.89
Coverage per pound inches^2 @ 1/4" thickness	47	1860 @ 12mils	53	60
Cured hardness (ASTM D2240) Shore D	77	71	80	84
Cured shrinkage (ASTM D2566) inch/inch	0.0005	N/A	0.0008	0.0010
Adhesive tensile shear (ASTM D1002) psi	2,616	2,616	2,764	2,495
Compressive strength (ASTM D695) psi	7,145	5,032	7,178	6,166
Flexural strength (ASTM D790) psi	7,876	6,700	7,488	4,880
Coefficient of thermal expansion (ASTM D696)[(in)/(in x ˚F)] x 10^{-6}	29	N/A	33	31
Dielectric constant (ASTM D150)	49.0	N/A	45	51
Maximum continuous dry service temperature ˚F	300	300	300	200
Maximum continuous wet service temperature ˚F	140	N/A	140	N/A

Chemical Resistance	Devcon® DFense Blok™	Devcon® DFense Blok™ Surface Wetting Agent	Devcon® DFense Blok™ Fast Cure (FC)	Devcon® DFense Blok™ Quick Patch
ACIDS				
Acetic 10%	⊘	⊘	⊘	⊘
Hydrochloric 10%	◐	◐	◐	●
Sulfuric 10%	◐	◐	◐	●
ALCOHOLS				
Methanol	⊘	⊘	⊘	○
Isopropanol	○	○	⊘	○
KETONES				
Acetone	○	○	⊘	○
Methyl ethyl ketone	⊘	⊘	⊘	○
ALKALIS				
Ammonium hydroxide 20%	◐	◐	◐	●
Sodium hydroxide 10%	◐	◐	◐	●
HYDROCARBONS				
Gasoline (unleaded)	○	○	○	●
Mineral spirits	●	◐	◐	●
CHLORINATED HYDROCARBONS				
1-1-1 Trichloroethane	◐	◐	◐	●
SALTS				
Sodium chloride	◐	◐	◐	●
Trisodium phosphate	◐	◐	◐	●

Key: ● Excellent ◐ Very Good ○ Fair ⊘ Poor

Wear-resistant, Abrasion-resistant Coatings

Specially formulated wear-resistant epoxy coatings that protect dry materials handling and storage equipment from abrasion, corrosion and wear. These products are trowelable, non-sag putties available in large particulate, high impact, and high temperature formulas.

Devcon® Wear Guard™ Fine Load

High-density, micro-alumina ceramic bead-filled epoxy system for protecting equipment that handles particulate smaller than ⅛".

- Withstands operating temperatures
- as high as 300°F
- Outstanding resistance to a wide range of chemicals

Item #	Size:
11470	30 lb

Devcon® Wear Guard™ Ultra

Alumina ceramic bead-filled epoxy system with outstanding abrasion resistance for severe service conditions.

- Outstanding Wear Resistance
- Extends Equipment Operating Cycles

Item #	Size:
11475	30 lb

Devcon® Combo Wear FC

High-tech, three-component (2 bead sizes plus silicon carbide) compound for repairing process equipment quickly and returning it to service in as little as 1-1/2 hours.

- Excellent adhesion to metal, ceramic and concrete surfaces
- Ideal for cracks in large coal fuel lines

Item #	Size:
11450	9 lb

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".

- Trowels onto overhead or vertical surfaces without sagging
- Ideal for repairing scrubbers, ash handling systems, pipe elbows, screens, and chutes

Item #	Size:
11490	30 lb

Devcon® Wear Guard™ High Impact

High density micro alumina ceramic bead-filled epoxy system with a flexible additive for superior impact and abrasion resistance.

- Non sagging putty in a creamy consistency
- High compression and impact strength

Item #	Size:
11460	30 lb

Devcon® Wear Guard™ High Temp

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

- Heat-cured, trowelable system that gives up to 30% improvement over conventional wear compounds
- Withstands continuous service temperatures to 450°F

Item #	Size:
11480	30 lb

Devcon® Tile Adhesive

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

- Bonds ceramic tile to vertical, curved, and overhead surfaces and repairs loose ceramic tiles
- Excellent chemical resistance to acids and alkalis

Item #	Size:
11495	20 lb

Devcon® HV Tile Adhesive

High-strength, trowelable adhesive compound for bonding tile, with a 35 minute working time.

- High viscosity, great non-sag adhesive
- Fills gaps and joints in crushers prior to backing compounds

Item #	Size:
11489	20 lb

Physical Properties	Devcon® Wear Guard™ Fine Load	Devcon® Wear Guard™ High Load	Devcon® Wear Guard™ High Temp	Devcon® Wear Guard™ High Impact	Devcon® Wear Guard™ Ultra	Devcon® Combo Wear FC (Fast Cure)	Devcon® Tile Adhesive	Devcon® HV Tile Adhesive
Color	Grey	Grey	Grey	Dark Grey	Grey	Grey	White	Grey
Mix ratio by weight /volume resin:hardener	2:1 / 2:1	2:1 / 2:1	13.7:1 / 6:1	2.5:1 / 2.5:1	2.15:1:5.65 [2]	2:1 / 2:1	1.1:1 / 1:1	1.1:1 / 1:1
Mixed viscosity cP	Putty	Putty	Putty	Putty	Putty	Putty	Putty	Putty
Functional cure hours	6-8	6-8	Heat Cured	6-8	16	2-3	12	8
Pot life minutes @ 75˚F	30	30	120	30	20	7	240	35
Specific volume inches³/pound	12.4	12.9	14.3	12.4	11.4	12.4	19.2	19
Coverage per pound inches² @ 1/4" thickness	50	50	60	50	46	50	76.8	76
Cured hardness (ASTM D2240) Shore D	87	87	87	85	87	87	81	81
Cured shrinkage (ASTM D2566) inch/inch	0.0006	0.0006	0.0010	0.0006	0.0004	0.0008	0.0010	0.0010
Adhesive tensile shear (ASTM D1002) psi	1,375	1,474	2,300	2,567	1,425	1,450	2,890	1,825
Compressive strength (ASTM D695) psi	11,000	11,000	13,200	7,250	13,910	11,000	9,620	11,800
Flexural strength (ASTM D790) psi	7,190	7,140	8,220	6,144	7,220	7,140	5,480	5,400
Coefficient of thermal expansion (ASTM D696) [(in)/(in x ˚F)] x 10^{-6}	34	32	27	34	26	34	14	14
Dielectric constant (ASTM D150)	46.0	41.0	38.0	46.0	40.0	41.0	46.0	45.0
Maximum continuous dry service temperature ˚F	300	300	450	300	300	300	200	200
Maximum continuous wet service temperature ˚F	140	140	150	140	140	140	N/A	N/A

NOTES: [2] Three-part system, beads separate

Chemical Resistance	Devcon® Wear Guard™ Fine Load	Devcon® Wear Guard™ High Load	Devcon® Wear Guard™ High Temp	Devcon® Wear Guard™ High Impact	Devcon® Wear Guard™ Ultra	Devcon® Combo Wear FC (Fast Cure)	Devcon® Tile Adhesive	Devcon® HV Tile Adhesive
ACIDS								
Acetic 10%	⊘	⊘	⊘	⊘	⊘	⊘	⊘	⊘
Hydrochloric 10%	◐	◐	●	◐	◐	○	◐	◐
Sulfuric 10%	◐	◐	●	◐	●	◐	◐	◐
ALCOHOLS								
Methanol	⊘	⊘	○	⊘	⊘	⊘	⊘	⊘
Isopropanol	⊘	⊘	○	⊘	⊘	○	○	○
KETONES								
Acetone	⊘	⊘	○	⊘	⊘	⊘	⊘	⊘
Methyl ethyl ketone	⊘	⊘	○	⊘	⊘	◐	◐	◐
ALKALIS								
Ammonium hydroxide 20%	●	●	●	●	●	●	●	●
Sodium hydroxide 10%	●	●	●	●	●	●	●	●
HYDROCARBONS								
Gasoline (unleaded)	●	●	●	●	●	○	○	○
Mineral spirits	●	●	●	●	●	●	●	●
CHLORINATED HYDROCARBONS								
1-1-1 Trichloroethane	◐	◐	●	◐	◐	◐	◐	◐
SALTS								
Sodium chloride	◐	◐	●	◐	◐	◐	◐	◐
Trisodium phosphate	◐	◐	●	◐	◐	◐	◐	◐

Key: ● Excellent ◐ Very Good ○ Fair ⊘ Poor

Elevated Temperature, Wear-resistant Coatings

Innovative wear-resistant epoxy coating that is designed to protect equipment against high temperature erosion, corrosion and abrasion. Long-lasting protection in both wet and dry environments upto 300°F / 148°C. Room temperature cure eliminates the need for oven bake cure. Trowelable, non-sag putty. Smooth with water.

Devcon® Wear Guard™ 300RTC

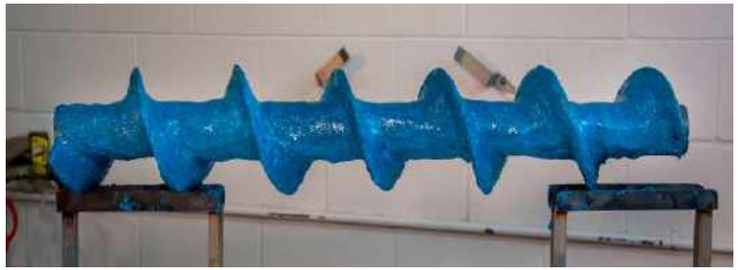
NEW!

Alumina ceramic bead-filled epoxy system with outstanding wear resistance for high temperature environments.

- Withstands elevated service temperatures, wet and dry conditions, up to 300°F / 148°C
- Room temperature cure eliminates need for post-bake cure
- Sag-free application
- Excellent chemical resistance
- Smooth with water
- Easy to mix and apply
- Low exothermic reaction

Item #	Size:
11430	30 lb

Typical Properties	
Color	Blue
Mix Ratio by Weight	2 : 1
Mixed Viscosity	Putty
Functional Cure	8 - 10 Hours
Pot Life	50 - 70 Minutes
Compressive Strength	12,500 psi (86.18 MPa)
Coverage	50 in^2 / lb (711.2 cm^2/kg) @ 0.25"
Cured Hardness	85 D
Specific volume inches/ pound	2.2
Coverage / lb	5.2 ft.lb./in.(2)
Cured Hardness	82 Shore D
Cured Shrinkage inch/ inch	.00054
Adhesive Tensile shear, psi	600 psi @ 300°F / 150°C
Compressive Strength, psi	12,500
Flexural Strength, psi	5,000
Coefficient of thermal expansion x 10^{-6}	43.6
Dielectric Constant	3.3
Maximum continuous dry service temp.	300°F / 150°C
Maximum continuous wet service temp.	300°F / 150°C



Easy to mix

Easy to apply

Smooth with water

Belting & Rubber Repair

Flexible urethane technologies for repairing worn or damaged SBR conveyor belts, rubber lined equipment such as pipes and tanks in mines, quarries, and coal-fired power plants. These products are in a non-sag putty for patching and repairing linings along with self-leveling thixitropic versions that create a smooth surface for repairing conveyor belts.

Devcon® R-Flex®

A self-leveling urethane compound for repairing holes, tears, gouges, and protecting clips, on conveyor belts.

- Functional cure in 90 minutes
- High adhesion with surface pull of the SBR rubber
- Kit includes fluorescent surface conditioner for dark environments

Item #	Size:
15550	4 lb
15656	1.5 lb

Before: R-Flex® Repair

After: R-Flex® Repair Belt Running Strong

Devcon® Flexane® 80 Putty

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

- Service temperatures to 180°F in dry environments and 120°F in wet environments
- Bonds to metal, concrete, rubber, wood, and fiberglass surfaces

Item #	Size:
15820	1 lb
15850	4 lb

Before: R-Flex® Clip Repair

After: R-Flex® Clip Repair

Devcon® Flexane® Brushable

High-performance brushable urethane for protection against abrasion and impact.

- Excellent for repairing/coating rubber-lined pumps, tanks and valves
- Applies in thicknesses of 50 mils in one application

Item #	Size:
15350	1 lb

ABS TYPE APPROVED PRODUCT

Devcon® Flexane® High Performance Putty

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

- Cures to a tough (tear strength 400 pli), resilient rubber compound (Hardness 78 Shore A)
- Bonds to metal, rubber, wood, fiberglass, and concrete

Item #	Size:
15330	1 lb

Technical Information

Physical Properties	Devcon® R-Flex®	Devcon® Flexane® 80 Putty	Devcon® Flexane® Brushable	Devcon® Flexane® High Performance Putty
Color	Black	Black	Black	Black
Mix ratio by weight resin:hardener	88:12	72:28	80:20	94:6
Mixed viscosity cP	Putty	Putty	40,000	Putty
Pot life minutes @ 75˚F	4	20	45	10
Specific volume inches³/pound	27.4	23.5	26.0	23.5
Coverage per pound inches² @ 1/4" thickness	440 (4lb)/110 (1.5lb)	94	104	94
Functional cure hours	1 1/2	12	18	16
Demolding time hours	N/A	N/A	N/A	N/A
Cured hardness (ASTM D2240) Shore A	92	87	86	78
Cured shrinkage (ASTM D2566) inch/inch	NA	0.0014	0.232	0.12[2]
Tensile strength (ASTM D412) psi	1,462	1,700	3,500	4,500
Tear resistance (ASTM D624) pli	270	300	400	400
Abrasion resistance weight loss[1]	270	280	90	140
Maximum elongation (ASTM D412) %	421	300	600	600
Dielectric strength (ASTM D149) volts/mil	350	350	340	350
Maximum continuous wet service temperature ˚F	120	120	120	120
Maximum continuous dry service temperature ˚F	180	180	180	180

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

Chemical Resistance	Devcon® R-Flex®	Devcon® Flexane® 80 Putty	Devcon® Flexane® Brushable	Devcon® Flexane® High Performance Putty
ACIDS				
Acetic 10%	◐	⊘	⊘	⊘
Hydrochloric 10%	○	◐	○	○
Sulfuric 10%	○	◐	○	○
Sulfuric 50%	○	◐	○	○
Phosphoric 10%	○	◐	○	○
ALCOHOLS				
Methanol	⊘	⊘	⊘	⊘
Isopropanol	⊘	⊘	⊘	⊘
KETONES				
Acetone	⊘	⊘	⊘	⊘
Methyl ethyl ketone	⊘	⊘	⊘	⊘
ALKALIS				
Ammonium hydroxide 20%	◐	◐	◐	◐
Sodium hydroxide 10%	◐	◐	◐	◐
HYDROCARBONS				
Gasoline (unleaded)	○	⊘	⊘	⊘
Mineral spirits	○	⊘	⊘	⊘
SALTS				
Sodium chloride	◐	◐	◐	◐
Trisodium phosphate	◐	◐	◐	◐
Aluminum sulfate 10%	◐	◐	◐	◐
Sodium carbonate 10%	◐	◐	◐	◐

Key: ● Excellent ◐ Very Good ○ Fair ⊘ Poor

Devcon®

Belting & Rubber Repair

Flexible urethane technologies for repairing worn or damaged SBR conveyor belts, rubber lined equipment such as pipes and tanks in mines, quarries, and coal-fired power plants. These products are in a non-sag putty for patching and repairing linings along with self-leveling thixotropic versions that create a smooth surface for repairing conveyor belts.

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)
- Cures at room temperature to a semi-rigid rubber material

Item #	Size:
15800	1 lb
15810	10 lb

Devcon® Flexane® 94 Liquid

Low-viscosity (6,000 cP) urethane fills voids completely and faithfully reproduces mold detail.

- Similar to Flexane® 80 Liquid, but cures to (Shore A 97)
- Requires only a five hour demolding time

Item #	Size:
15250	1 lb
15260	10 lb

Devcon® Flexane® Primer

Required for maximum adhesion of Flexane® products.

- FL-10 Primer for all metals.
- FL-20 Primer for rubber, wood, fiberglass and concrete.

Item #	Size:
15980	4 oz (FL-10)
15985	4 oz (FL-20)

Devcon® Flex-Add™

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

- Creates a lower durometer castable urethane
- Can match existing hardness of rubber

Item #	Size:
15940	8 oz

Devcon® Liquid Release Agent

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

- Produces a high gloss finish
- Facilitates the accurate duplication of intricate details

Item #	Size:
19600	1 pt

ABS TYPE APPROVED PRODUCT

Devcon® 400ml Dispensing System

Manual dispensing gun and custom design mixing nozzle for 4:1 400 ml systems.

- Used with Flexane® Fast Cure Putty #15049 & Flexane® Fast Cure Liquid #15050

Item #	Size:
15043	400ml gun
15047	Nozzle (Ø.394" 4:1 ratio)

Devcon® Flexane® FC Liquid

A convenient, time-saving method of filling expansion joints and repairing rubber.

- 8-minute working time
- No-mess dispensing with fast, easy, 400ml reusable cartridges
- Dispenser: #15043 (manual) Nozzle #15047

Item #	Size:
15050	400 ml cartridge

Devcon® Flexane® Fast Cure Putty

Black Flexane® Fast Cure thickens to a putty in seconds providing superior flexibility, elongation and adhesion to rubber.

- Light service duty in 3 hours
- Thixotropic , creamy formula which thickens in time
- Dispenser #15043 (manual) Nozzle #15047

Item #	Size:
15049	400 ml cartridge

Technical Information

Physical Properties	Devcon® Flexane® 80 Liquid	Devcon® Flexane® 94 Liquid	Devcon® Flexane® Fast Cure Putty	Devcon® Flexane® Fast Cure Liquid
Color	Black	Black	Black	Grey
Mix ratio by weight resin:hardener	77:23	69:31	80:20	80:20
Mixed viscosity cP	10,000	6,000	Putty	5,800
Pot life minutes @ 75˚F	30	10	8	8
Specific volume inches³/pound	26.5	26.5	23.5	26.5
Coverage per pound inches² @ 1/4" thickness	106	106	94	106
Functional cure hours	16	16	3	2
Demolding time hours	10	5	N/A	N/A
Cured hardness (ASTM D2240) Shore A	87	97	88	94
Cured shrinkage (ASTM D2566) inch/inch	0.0018	0.0014	0.0014	0.0018
Tensile strength (ASTM D412) psi	2,100	2,800	2,400	3,300
Tear resistance (ASTM D624) pli	350	415	275	430
Abrasion resistance weight loss[1]	285	330	220	330
Maximum elongation (ASTM D412) %	650	500	500	450
Dielectric strength (ASTM D149) volts/mil	350	350	350	350
Maximum continuous dry service temperature ˚F	180	180	120	120
Maximum continuous wet service temperature ˚F	120	120	180	180

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

Chemical Resistance	Devcon® Flexane® 80 Liquid	Devcon® Flexane® 94 Liquid	Devcon® Flexane® Fast Cure Putty	Devcon® Flexane® Fast Cure Liquid
ACIDS				
Acetic 10%	⊘	⊘	⊘	⊘
Hydrochloric 10%	◐	◐	◐	◐
Sulfuric 10%	◐	◐	◐	◐
Sulfuric 50%	◐	◐	◐	◐
Phosphoric 10%	◐	◐	◐	◐
ALCOHOLS				
Methanol	⊘	⊘	⊘	⊘
Isopropanol	⊘	⊘	⊘	⊘
KETONES				
Acetone	⊘	⊘	⊘	⊘
Methyl ethyl ketone	⊘	⊘	⊘	⊘
ALKALIS				
Ammonium hydroxide 20%	◐	◐	◐	◐
Sodium hydroxide 10%	◐	◐	◐	◐
HYDROCARBONS				
Gasoline (unleaded)	⊘	⊘	⊘	⊘
Mineral spirits	⊘	⊘	⊘	⊘
SALTS				
Sodium chloride	◐	◐	◐	◐
Trisodium phosphate	◐	◐	◐	◐
Aluminum sulfate 10%	◐	◐	◐	◐
Sodium carbonate 10%	◐	◐	◐	◐

Key: ● Excellent ◐ Very Good ○ Fair ⊘ Poor

Devcon®

Corrosion Repair Compounds

Ceramic filled epoxy technology used to make permanent repairs to pumps, shafts, pipes, and tanks where a corrosion-resistant polymer is needed to protect all metals against corrosion and erosion in slurry applications. These products apply easily with spray, a brush or trowel.

Devcon® Titanium Putty

High-performance, nonrusting titanium-reinforced epoxy putty for making repairs that can be precision machined.

- Withstands heavy loads in harsh chemical evironments
- High compressive strength

Item #	Size:
10760	1 lb
10770	2 lb

ABS TYPE APPROVED PRODUCT

Devcon® Ceramic Repair Putty

Trowelable, alumina-filled epoxy compound for rebuilding, smoothing and protecting processing equipment exposed to corrosion, erosion, cavitation, chemicals and acids.

- Temperature range up to 350°F
- Excellent for filling voids and rebuilding metal castingsone application

Item #	Size:
11700	3 lb

Devcon® Ceramic Repair Compound

Trowelable, alumina-filled epoxy compound with a 45-minute pot life and larger kit size for bigger jobs of rebuilding, smoothing and protecting processing equipment.

- Temperature range up to 350°F
- Excellent for filling voids and rebuilding metal castings

Item #	Size:
11730	32 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, and erosion.

- Temperature range up to 350°F
- Brushable Ceramic white is NSF 61 Certified.

Item #	Size:
11760	2 lb (red)
11762	12 lb (red)
11765	2 lb (blue)
11767	12 lb (blue)
11770	2 lb (white)

ABS TYPE APPROVED PRODUCT

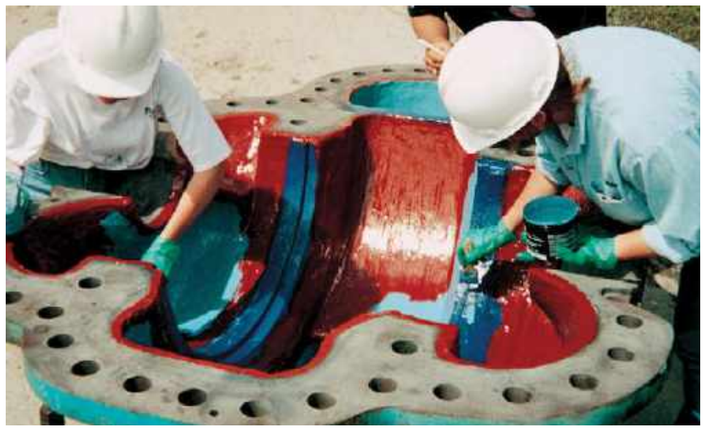
Devcon® EZ-Spray Ceramic

NEW!

Sprayable, solvent-free, high performance ceramic-filled epoxy for sealing, protecting and repairing surfaces subject to erosion, corrosion and wear. Significantly reduces equipment repair time with easy-to-use delivery system.

- Temperature resistance to 175°C.
- Excellent chemical resistance.

Item #	Size:
11780	1,000 ml (Red)
11781	1,000 ml (Blue)
14289	Straight Spray Nozzle
14279	90 Degree Spray Nozzle
14404	Pneumatic Spray Dispenser



Physical Properties	Devcon® Titanium Putty	Devcon® Brushable Ceramic Red, Blue	Devcon® Brushable Ceramic White	Devcon® Ceramic Repair Putty	Devcon® Ceramic Repair Compound	Devcon® EZ-Spray Ceramic
Color	Grey	Red, Blue	White	Dark Blue	Dark Blue	Red, Blue
Mix ratio by weight / volume resin:hardener	4.3:1 / 3:1	5.6:1 / 3.4:1	8:5:1 / 5:6:1	7:1 / 4.3:1	4.7:1 / 3.3/1	5.0:1 / 3:1
Mixed viscosity cP	Putty	32,000	40,000	Putty	Putty	30,000
Functional cure hours	16	16	16	16	16	16
Pot life minutes @ 75˚F	21	40	21	25	45	40
Specific volume inches³/pound	11.7	16.9	16.5	16.4	17.9	17.1
Coverage per pound inches² @ 1/4" thickness	47	7.8[1]	7.6[1]	66	72	7.9[1]
Cured hardness (ASTM D2240 Shore D	87	85	84	86	86	85
Cured shrinkage (ASTM D2566) inch/inch	0.0010	0.0020	0.0020	0.0022	0.0024	0.0020
Adhesive tensile shear (ASTM D1002) psi	2,000	2,000	2,000	2,000	2,231	2,000
Compressive strength (ASTM D695) psi	15,200	13,700	13,200	12,700	10,240	13,700
Flexural strength (ASTM D790 psi	7,700	8,000	8,000	6,475	5,870	8,000
Modulus of elasticity (ASTM D638) psi x 10^5	9.5	8.0	8.0	8.1	8.1	8.0
Coefficient of thermal expansion (ASTM D696) [(in)/(in x ˚F)] x 10^{-6}	22	25.6	27.5	23.8	24.2	25.6
Thermal conductivity (ASTM C177) [(cal x cm)/(sec x cm2 x ˚C)] x 10^{-3}	1.95	19	19	1.88	1.72	19
Dielectric constant (ASTM D150)	44.8	38.7	38.7	41.0	41.0	38.7
Dielectric strength (ASTM D149) volts/mil	56	382	382	370	350	382
Maximum continuous dry service temperature ˚F	350	350	350	350	350	350
Maximum continuous wet service temperature ˚F	150	150	150	150	150	150

NOTES: 1 Coverage (feet2 @ 15mils)

Chemical Resistance	Devcon® Titanium Putty	Devcon® Brushable Ceramic Red, Blue	Devcon® Brushable Ceramic White	Devcon® Ceramic Repair Putty	Devcon® Ceramic Repair Compound	Devcon® EZ-Spray Ceramic
ACIDS						
Acetic 10%	⊘	⊘	⊘	⊘	⊘	⊘
Hydrochloric 10%	●	●	●	●	●	●
Sulfuric 10%	◐	◐	◐	◐	◐	◐
ALCOHOLS						
Methanol	●	●	●	●	●	●
Isopropanol	●	●	●	●	●	●
KETONES						
Acetone	⊘	⊘	⊘	⊘	⊘	⊘
Methyl ethyl ketone	⊘	⊘	⊘	⊘	⊘	⊘
ALKALIS						
Ammonium hydroxide 20%	●	●	●	●	●	●
Sodium hydroxide 10%	●	●	●	●	●	●
HYDROCARBONS						
Gasoline (unleaded)	●	◐	◐	●	●	●
Mineral spirits	●	●	●	●	●	●
CHLORINATED						
HYDROCARBONS						
1-1-1 Trichloroethane	●	●	●	●	●	●
SALTS						
Sodium chloride	●	●	●	●	●	●
Trisodium phosphate	●	●	●	●	●	●

Key: ● Excellent ◐ Very Good ○ Fair ⊘ Poor

Devcon®

Metal Repair Epoxies

Metal-filled epoxy technology that allow for fast economical permanent repairs to power plant and mining equipment. They can be machined, tapped and drilled, and corrosion resistant to harsh chemicals. These products are available in pourable versions that can be used to provide accurate detail reproductions for short run prototype mold patterns, holding fixtures and forming dies.

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 #	Size:
10110	1 lb
10120	4 lb
10130	25 lb

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 #	Size:
10210	1 lb
10220	4 lb
10230	25 lb

Devcon® Aluminum Putty (F)

Aluminum-filled epoxy putty for dependable nonrusting repairs to aluminum castings, machinery and equipment.

- Can be machined drilled or tapped using conventional metalworking tools
- Widely used in HVAC applications, it conforms to requirements of MIL-PRF-24176C, Type II

Item #	Size:
10610	1 lb
10620	3 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.

- Bonds to ferrous and non-ferrous metals
- NSF 61 Certified

Item #	Size:
10270	1 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
- Mixes, applies, and cures at temperatures as low as 40°F

Item #	Size:
10240	1 lb

Devcon® Aluminum Liquid (F-2)

Aluminum-filled pourable epoxy for making molds, patterns and holding fixtures.

- It can be drilled, tapped and machined
- Hardens in just over 1 hour; cures in 16 hours
- Qualifies under Federal Specification MMM-A-1754, Adhesive/Sealing

Item #	Size:
10710	1 lb
10720	3 lb

Physical Properties	Devcon® Plastic Steel® Putty (A)	Devcon® Plastic Steel® Liquid (B)	Devcon® Plastic Steel® 5 Minute® Putty (SF)	Devcon® Stainless Steel Putty (ST)	Devcon® Aluminum Putty (F)	Devcon® Aluminum Liquid (F-2)
Color	Dark Grey	Dark Grey	Dark Grey	Grey	Aluminum	Aluminum
Mix ratio by weight / volume resin:hardener	9:1 / 2.5:1	9:1 / 3:1	1.7:1 / 1:1	11:1 / 3.75:1	9:1 / 4:1	9:1 / 5:1
Mixed viscosity cP	Putty	15 / 25,000	Putty	Putty	Putty	15 / 25,000
Functional cure hours	16	16	1	16	16	16
Pot life minutes @ 75˚F	45	45	5	58	60	75
Specific volume inches³/ pound	11.9	13.1	12.2	12.4	17.5	17.5
Coverage per pound inches² @ 1/4" thickness	48	52	49	50	70	70
Cured hardness (ASTM D2240) Shore D	85	85	85	85	85	85
Cured shrinkage (ASTM D2566) inch/inch	0.0006	0.0006	0.0006	0.0010	0.0008	0.0009
Adhesive tensile shear (ASTM D1002) psi	2,800	2,800	2,026	2,385	2,600	2,700
Compressive strength (ASTM D695) psi	8,260	10,200	10,400	8,400	8,420	9,820
Flexural strength (ASTM D790) psi	5,600	7,480	7,680	5,280	6,760	7,180
Modulus of elasticity (ASTM D638) psi x 10^5	8.5	8.5	7.5	8.0	8.0	7.5
Coefficient of thermal expansion (ASTM D696) [(in)/(in x ˚F)] x 10^{-6}	48	38	34	34	29	50
Thermal conductivity (ASTM C177) [(cal x cm)/ (sec x cm² x ˚C)] x 10^{-3}	1.37	1.39	2.65	1.23	1.73	1.58
Dielectric constant (ASTM D150)	67.5	67.5	35.0	75.0	21.4	8.6
Dielectric strength (ASTM D149) volts/mil	30	30	30	30	100	100
Maximum continuous dry service temperature ˚F	250	250	200	250	250	250
Maximum continuous wet service temperature ˚F	120	120	N/A	120	120	120

Chemical Resistance	Devcon® Plastic Steel® Putty (A)	Devcon® Plastic Steel® Liquid (B)	Devcon® Plastic Steel® 5 Minute® Putty (SF)	Devcon® Stainless Steel Putty (ST)	Devcon® Aluminum Putty (F)	Devcon® Aluminum Liquid (F-2)
ACIDS						
Acetic 10%	⊘	⊘	⊘	⊘	⊘	⊘
Hydrochloric 10%	◐	◐	○	◐	◐	◐
Sulfuric 10%	◐	◐	○	◐	◐	◐
ALCOHOLS						
Methanol	⊘	⊘	⊘	⊘	○	⊘
Isopropanol	⊘	⊘	⊘	⊘	⊘	⊘
KETONES						
Acetone	⊘	⊘	⊘	⊘	⊘	⊘
Methyl ethyl ketone	⊘	⊘	⊘	⊘	⊘	⊘
ALKALIS						
Ammonium hydroxide 20%	◐	◐	○	◐	⊘	○
Sodium hydroxide 10%	◐	◐	○	◐	○	○
HYDROCARBONS						
Gasoline (unleaded)	◐	◐	◐	◐	◐	◐
Mineral spirits	◐	◐	◐	◐	◐	◐
CHLORINATED						
HYDROCARBONS						
1-1-1 Trichloroethane	◐	◐	○	◐	◐	◐
SALTS						
Sodium chloride	◐	◐	○	◐	◐	◐
Trisodium phosphate	◐	◐	○	◐	◐	◐

Key: ● Excellent ◐ Very Good ○ Fair ⊘ Poor

Devcon®

Metal Repair Epoxies

Metal-filled epoxy technology that allow for fast economical permanent repairs to power plant and mining equipment. They can be machined, tapped and drilled, and corrosion resistant to harsh chemicals. These products are available in pourable versions that can be used to provide accurate detail reproductions for short run prototype mold patterns, holding fixtures and forming dies.

Devcon® Wear Resistant Putty (WR-2)

Smooth, non-rusting, all-purpose epoxy putty for repairs requiring low-friction finishes, such as machine lathe beds.

- Bonds to steel, iron, aluminum, ceramic, concrete, brass, and some plastics
- Contains wear-resistant fillers for low riction applications

Item #	Size:
11410	1 lb
11420	3 lb

Devcon® FasMetal™

High-performance, alumina-filled epoxy for making fast, dependable emergency repairs to leaks in pipes.

- Hardens in 5 minutes
- Economical and convenient

Item #	Size:
10780	1 lb

Devcon® HVAC Repair (Special F)

Aluminum-filled epoxy adhesive for HVAC repairs.

- Repairs coils in compressors
- Hardens to a rigid bond that can be ground, drilled or tapped

Item #	Size:
19770	1 lb

Devcon® Cleaner Blend 300

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

- Needs no rinsing; leaves no residue
- Evaporates fast

Item #	Size:
19510	1 pt

Devcon® Underwater Repair (UW)

High-performance technology for repairing, patching, and rebuilding equipment in habitually wet environments, including under water.

- Non-rusting; easy-to-mix and apply
- Eliminates the need for substrate to be thoroughly dry before repair

Item #	Size:
11800	1 lb

Devcon® Liquid Release Agent

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

- Produces a high gloss finish
- Facilitates the accurate duplication of intricate details

Item #	Size:
19600	1 pt

Physical Properties	Devcon® Bronze Putty (BR)	Devcon® Wear Resistant Putty (WR-2)	Devcon® Underwater Repair Putty (UW)	Devcon® FasMetal™	Devcon® HVAC Repair (Special F)
Color	Bronze	Dark Grey	Grey	Grey	Grey
Mix ratio by weight / volume resin:hardener	9:1 / 3:1	9:1 / 4:1	1.4:1 / 1:1	1.07:1 / 1:1	0.9:1 / 1:1
Mixed viscosity cP	Putty	Putty	Putty	Putty	40,000
Functional cure hours	16	16	24	1	16
Pot life minutes @ 75˚F	35	45	45	4	60
Specific volume inches³/ pound	12.4	13.9	17.0	17.2	16.1
Coverage per pound inches² @ 1⁄4" thickness	50	56	68	69	64
Cured hardness (ASTM D2240) Shore D	85	85	82	90	85
Cured shrinkage (ASTM D2566) inch/inch	0.0010	0.0005	0.0020	0.0093	0.0008
Adhesive tensile shear (ASTM D1002) psi	2,680	2,200	2,685	2,000	2,500
Compressive strength (ASTM D695) psi	8,540	9,800	5,625	12,700	8,420
Flexural strength (ASTM D790) psi	6,180	6,500	4,990	7,700	6,260
Modulus of elasticity (ASTM D638) psi x 10⁵	8.0	7.5	7.5	8.5	7.8
Coefficient of thermal expansion (ASTM D696) [(in)/(in x ˚F)] x 10⁻⁶	33	32	18	32	29
Thermal conductivity (ASTM C177) [(cal x cm)/(sec x cm² x ˚C)] x 10⁻³	1.57	1.67	1.41	2.04	1.73
Dielectric constant (ASTM D150)	75.0	6.3	8.6	18.6	21.4
Dielectric strength (ASTM D149) volts/mil	25	400	150	370	100
Maximum continuous dry service temperature ˚F	250	250	250	250	250
Maximum continuous wet service temperature ˚F	120	120	120	N/A	110

Chemical Resistance	Devcon® Bronze Putty (BR)	Devcon® Wear Resistant Putty (WR-2)	Devcon® Underwater Repair Putty (UW)	Devcon® FasMetal™	Devcon® HVAC Repair (Special F)
ACIDS					
Acetic 10%	⊘	⊘	⊘	⊘	⊘
Hydrochloric 10%	◐	◐	○	◐	◐
Sulfuric 10%	◐	◐	○	◐	◐
ALCOHOLS					
Methanol	⊘	⊘	⊘	⊘	⊘
Isopropanol	⊘	⊘	⊘	⊘	⊘
KETONES					
Acetone	⊘	⊘	⊘	⊘	⊘
Methyl ethyl ketone	⊘	⊘	⊘	⊘	⊘
ALKALIS					
Ammonium hydroxide 20%	◐	◐	◐	◐	⊘
Sodium hydroxide 10%	◐	◐	◐	◐	⊘
HYDROCARBONS					
Gasoline (unleaded)	◐	◐	◐	◐	◐
Mineral spirits	◐	◐	◐	◐	◐
CHLORINATED HYDROCARBONS					
1-1-1 Trichloroethane	◐	◐	◐	○	○
SALTS					
Sodium chloride	◐	◐	◐	○	◐
Trisodium phosphate	◐	◐	◐	○	◐

Key: ● Excellent ◐ Very Good ○ Fair ⊘ Poor

Devcon®

Crusher Backing

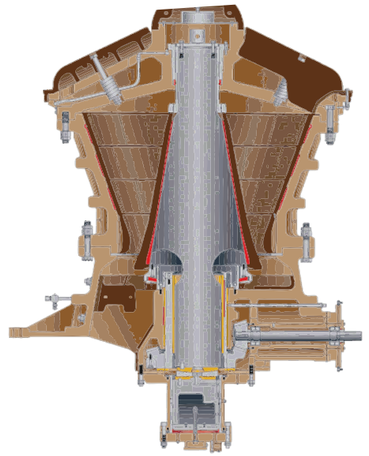
Devcon® offers a unique combination of crusher backing and concave sealing solutions. High Performance Backing Compound (HPBC) is used as shock absorbing compound in cone crushing machines. This formulation is used to produce a low viscosity, tough and flexible backing material which reinforces and supports crusher wear parts, absorbs and dampens impact of the liner to the crusher, and servers as a damper when subjected to impact and shock.

High Performance Backing Compound

High-strength liquid epoxy with the necessary resiliency to withstand forces generated by crushers and mills. It serves as a backing and reinforcing layer between machine parts and as a damper when subjected to impact and shock loads.

- 100% solids - no solvents
- High compression and impact strength
- Negligible shrink
- Easy to pour; easy to use
- Low exothermic reaction

Item #	Size:
81095	20 lb
81096	50 lb



Physical Properties	High Performance Backing Compound
Color	Red
Mix ratio by weight / volume resin:hardener	9.95:1
Mixed viscosity cP	10,320
Functional cure hours	8
Pot life minutes @ 75˚F	30
Specific volume inches³/pound	17.2
Coverage per kit inches²@ 1⁄4" thickness	349[1]
Cured hardness (ASTM D2240) Shore D	85
Cured shrinkage (ASTM D2566) inch/inch	0.0006
Adhesive tensile shear (ASTM D1002) psi	1,179
Compressive strength (ASTM D695) psi	16,059
Flexural strength (ASTM D790) psi	10,277
Coefficient of thermal expansion (ASTM D696) [(in)/(in x ˚F)] x 10⁻⁶	22
Side Impact (in - lbs)	41
Maximum continuous dry service temperature ˚F	250
Maximum continuous wet service temperature ˚F	120

[1] Coverage in inches² / 20.4 pound unit

Chemical Resistance	High Performance Backing Compound
Ammonia	●
Cutting Oil	●
Gasoline (Unleaded)	○
Hydrochloric 10%	◐
Hydrochloric 36%	○
Mineral Spirits	●
Potassium Hydroxide 20%	●
Potassium Hydroxide 40%	●
Sodium Chloride Brine	●
Xylene	●

Key: ● Excellent ◐ Very Good ○ Fair ⊘ Poor

Concave Sealing

Devcon® Concave Sealer is ideal for sealing concave tiles that line gyratory crushers. With a 15 minute functional cure, Concave Sealer dramatically reduces repair time, the cost of crusher downtime, and lost production.

Concave Sealer

A thixotropic adhesive made to fill voids between Concave liners allowing you to pour crusher backing within 10 minutes after application. The adhesive is non-sag on a vertical surface and able to bond to any metal surface.

- Room temperature cure
- Functional in 10 minutes
- Bonds to poorly prepared surfaces
- Non-Sagging formula

Item #	Size:
81091	250 ml Cartridge
30079	Cartridge Nozzles

Physical Properties	Concave Sealer
Cured 7 days @ 75° F	
Adhesive Tensile Lap Shear(ABS)	1,300 psi
Adhesive Tensile Lap Shear(AL)	2,041 psi
Adhesive Tensile Lap Shear(SS)	2,439 psi
Adhesive Tensile Lap Shear[GBS]	3,500 psi
Cured Density	28.1 in[3]/lbs.
Gap Fill	0.5 in.
Impact Resistance	22 ft.lb./in[2]
Shore Hardness	78 Shore D
Solids by Volume	100
Tensile Elongation	15-25%
Tpeel	35-40 pli
Uncured	
Color	straw
Fixture Time	10-15 min. @ 72°F, 22°C
Flashpoint	51°F
Full Cure	24 hrs.
Functional Cure	45 minutes
Mix Ratio by Volume	1:1
Mix Ratio by Weight	100/117
Mixed Density	8.20 lbs./gal./ .98gms/cc
Mixed Viscosity	Thixotropic/non-sagging
Service Temperature	-67°F - 250°F
Viscosity	Adhesive: 55,000 cps; Activator: 50,000 cps
Weight	Adhesive: 8.4lbs./gal.; Activator: 8.00 lbs./gal.
Working Time	4-6min. @ 72°F,[22°C]

If you have questions, please contact Technical Service: 1-855-489-7262

Chemical Resistance	Concave Sealer
Acetic (Dilute) 10%	○
Ammonia	○
Cutting Oil	◐
Gasoline (Unleaded)	◐
Glycols/Antifreeze	●
Hydrochloric 10%	○
Motor Oil	◐
Sodium Hydroxide 10%	◐

Key: ● Excellent ◐ Very Good ○ Fair ⊘ Poor

Devcon®

Surface Preparation

The key to a successful repair is proper preparation and thorough cleaning prior to applying repair products or protective coatings.

General Surface Preparation

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

1) Make sure the surface is completely dry. Moisture will adversely affect the strength of the bond to the surface.
2) 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 and tech data sheet.

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:

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

Metal

To properly prepare a metal surface:

1) If the surface is oily or greasy, degrease it with Devcon® Cleaner Blend 300.
2) 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.
4) Make repairs as soon as possible after blasting the substrate to avoid oxidation or flash rusting.

Rubber

To properly prepare a rubber surface:

1) Abrade the surface using a wire brush 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.)
2) Remove all oil and grease from the rubber surface with Devcon® Cleaner Blend 300 and an abrasive pad.
3) 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 Surface Conditioner (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 Technical Service for a recommendation on primers and surface preparation procedures.

Concrete

To properly prepare a concrete surface:

1) 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.
3) Shot blast (Blastrac®) the concrete to create a porous surface profile. This will improve surface "wetting" and coating or repair product adhesion.

Wet Surfaces

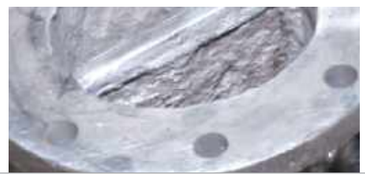
In general, Devcon® repair products and protective coatings will not adhere to wet surfaces.

To properly repair a wet surface:

1) Review the General Surface Preparation guidelines.
2) 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.

Before



After

If you have questions, please contact Technical Service: 1-855-489-7262

Blastrac® is a registered trademark of Blastrac, NA

Agency Approvals

Specification	Product	Part #	Size
MIL-PRF-24176C, Type I	Plastic Steel® Putty (A)	10110, 10120, 10130	1lb, 4lb, 25lb
MIL-PRF-24176C, Type I	Titanium Putty	10760, 10770	1lb, 2lb
MIL-PRF-24176C, Type I	Ceramic Repair Putty	11700	3lb
MIL-PRF-24176C, Type II	Aluminum Putty (F)	10610, 10620	1lb, 3lb
MMM-A-1754	Plastic Steel® Liquid (B)	10210, 10220, 10230	1lb, 4lb, 25lb
MMM-A-1754	Aluminum Liquid (F-2)	10710, 10720	1lb, 3lb
ABS	Flexane® Brushable	15350	1lb
ABS	Plastic Steel® Putty (A)	10110, 10120, 10130	1lb, 4lb, 25lb
ABS	Plastic Steel® 5 Minute® Putty (SF)	10240	1lb
ABS	Titanium Putty	10760, 10770	1lb, 2lb
ABS	Stainless Steel Putty (ST)	10270	1 lb
ABS	Ceramic Repair Putty	11700	3lb
ABS	Plastic Steel® Liquid (B)	10210, 10220, 10230	1lb, 4lb, 25lb
ABS	Aluminum Liquid (F2)	10710, 10720	1lb, 3lb
ABS	Brushable Ceramic Red	11760, 11762	2lb, 12lb
ABS	Brushable Ceramic Blue	11765, 11767	2lb, 12lb
ABS	Brushable Ceramic White	11770	2lb
NSF/ANSI 61	Stainless Steel Putty	10270	1 lb
NSF/ANSI 61	Brushable Ceramic White	11770	2 lb

Product Index

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The technical information, recommendations, and other statements contained in this brochure are based upon tests or experience that ITW Performance Polymers believes are reliable, but the accuracy or completeness of such information is not guaranteed. The information provided is not intended to substitute for the customers own testing.

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