



NOVOCOAT

Coatings, adhesives, sealants and surface repair systems





COATINGS, ADHESIVES, SEALANTS AND SURFACE REPAIR SYSTEMS

When corrosion and wear impair performance of your machinery and structures, you need solutions that fix them fast and keep them in good working order for the long haul. Armor offers a variety of repair and restoration products that are simple to use, safe for workers and best-in-class in cutting downtime. To prevent corrosion and abrasive wear from damaging your infrastructure and equipment, coat them with Armor surface protection systems.





PRODUCT DESCRIPTIONS

Repair & Rebuilding Solutions

METAL PARTS & SURFACES

NOVOCOAT EP4900 CERAMIC CARBIDE

Novocoat EP4900 Ceramic Carbide product is a rugged ceramic-filled repair/wear compound for severe environments such as chutes, crushers, dry bag houses and slurry tanks. Novocoat EP4900 Ceramic Carbide offers exceptional abrasion resistance, cures in very low temperatures and tolerates less than optimal conditions.

FEATURES:

- » 100% solids, no VOCs
- » Excellent UV stability
- » Strong impact resistance and corrosion protection

NOVOCOAT EP3900 MACHINABLE PASTE

Novocoat EP3900 Machinable Paste is a synthetic rebuild material for metal parts and surfaces. It is machinable and has a smooth, spreadable consistency that makes it easy to apply. Novocoat EP3900 Machinable Paste is most often used for steel tank repair but is also suited for rebuilding tube sheets, shafts, bearing housings, pump casings and more.

FEATURES:

- » 100% solids, no VOCs
- » Easily machinable using conventional tools
- » Ambient cure with easy mix ratios
- » Excellent resistance to a wide range of chemicals
- » No shrinkage, expansion or distortion



*Heat exchanger floating head before and after pits in steel were filled using **Novocoat EP3900 Machinable Paste**.
Novocoat SC5400 Lining applied as topcoat.*



*Pitted and worn steel rebuilt with **Novocoat EP3900 Machinable Paste**.*

NOVOCOAT EP3300 PASTE/CAULK

Novocoat EP3300 Paste/Caulk is a cost-effective, fully machinable paste suitable for a wide range of general metal repairs. This product can be applied effectively in hot environments and offers an extended working life, ideal for large applications where greater volumes of material are required.

FEATURES:

- » 1:1 mix ratio
- » Multipurpose
- » 100% solids, no VOCs, solvent free
- » Easily machinable using conventional tools
- » Excellent resistance to a wide range of chemicals
- » No shrinkage, expansion or distortion

NOVOCOAT EP5700 CERAMIC PASTE

Novocoat EP5700 Ceramic Paste is a 100% solids novolac epoxy repair putty designed for maximum heat and chemical resistance. It is an excellent resurfacer for floors, secondary containment, ducts, piping, vessels and storage tanks. Novocoat EP5700 Ceramic Paste products withstand phosphoric acid, 25% nitric acid, 25% hydrofluoric acid, MEK, mineral acids, bleach, chlorides, potassium and sodium.

FEATURES:

- » 100% solids, no VOCs
- » Excellent chemical resistance
- » Maximum continuous 450°F (232°C) dry temperature rating



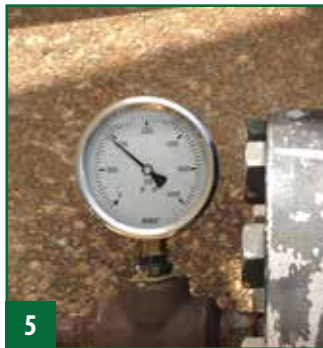
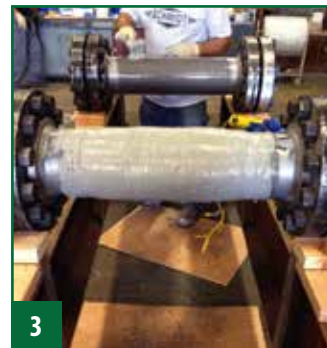
Tube sheet resurfaced using Novocoat EP5700 Ceramic Paste.

NOVOCOAT R1900 QUICK REPAIR

Novocoat R1900 Quick Repair is a two-component emergency repair composite/adhesive with ceramic and steel reinforcement. This fully machinable compound is used to make permanent bonds and repairs or to rebuild metal components. It meets ASME PCC-2 Part 4 Article 4.1 specifications for Long Term Repair.

FEATURES:

- » Complies with ASME PCC-2 Part 4 Article 4.1 for Long Term Repair
- » Fast cure for emergency repairs
- » 100% solids, no VOCs
- » Easily machinable using conventional tools
- » Excellent resistance to a wide range of chemicals
- » No shrinkage, expansion or distortion
- » Fast return-to-service



1. Pipe with 5 mm hole
2. Hole filled with **Novocoat R1900 Quick Repair**.
3. Pipe wrapped with fiberglass wetted out with **Novocoat SC3000 Novolac Epoxy Lining** resin.
4. Four pipe spools produced and tested simultaneously. Pipes then joined together for hydro testing at 1,450 psi for 1,000 hours.
5. Pipe pressure holding at 1,900 psi with no leaks.
6. Pressure increased after 1,000 hour test; gaskets gave out at 4,600 psi, but repair patches remained strong.



Novocoat SC3300 Novolac Epoxy Lining inside fittings



PRODUCT DESCRIPTIONS

Novolite Repair Mortar

Concrete Repair Solutions

DIVERSE SURFACES

NOVOCOAT HF1200 EPOXY

Novocoat HF1200 Epoxy is a binder used in epoxy polymer overlays designed to enhance the surface friction of asphalt or Portland cement concrete pavements. The neutral-colored epoxy binder is site mixed and applied to the surface of the prepared pavement then covered with select aggregate, as specified, to achieve the desired surface friction and color. Use Novocoat HF1200 Epoxy in overlayments at intersections, entrance/exit ramps, crosswalks, school crossings, bridge surfaces, grades, curves, roundabouts, toll plazas, bike paths, or anywhere increased surface friction or delineating color are desired.

FEATURES:

- » Highly durable and wear-resistant high friction surface
- » Flexible and impact resistant
- » Resistant to fuel, oil and pavement de-icers
- » Colored, exposed-aggregate finish

NOVOLITE REPAIR MORTAR

Novolite Repair Mortar is a 100% solids, three-component, easy-to-use repair compound for vertical and overhead concrete surfaces, such as walls, ceilings, columns and beams. The resin in Novolite Repair Mortar serves dual purposes as concrete primer and binder for the lightweight Novolite aggregate.

FEATURES:

- » 100% solids, no VOCs
- » Lightweight, easy-to-use concrete repair
- » Stronger than concrete
- » Long-term protection
- » No sagging or slumping



Novolite Repair Mortar used on concrete.



Novocoat SC3300 Novolac Epoxy Lining

PRODUCT DESCRIPTIONS

Liquid Coating Solutions

BRUSHABLE/SPRAYABLE

NOVOCOAT SC5400 LINING

Novocoat SC5400 Lining is a 100% solids novolac epoxy coating designed for maximum heat and chemical resistance. Designed to provide protection for floors, secondary containment, ducts, piping, vessels and storage tanks, SC5400 Lining withstands sulfuric acid, phosphoric acid, 25% nitric acid, 25% hydrofluoric acid, MEK, mineral acids, bleach, chlorides, potassium and sodium.

FEATURES:

- » 100% solids, no VOCs
- » Excellent chemical resistance
- » Maximum continuous 450°F (232°C) dry temperature rating

NOVOCOAT SP2000AR CERAMIC COATING | Abrasion Resistant Overcoat (ARO)

Novocoat SP2000AR Ceramic Coating is an epoxy coating that can actually improve the efficiency of pipes, pumps, valves and more. It also reduces energy use and lowers maintenance costs.

FEATURES:

- » Improved efficiency of pipes, pumps, valves and more
- » Strong protection against corrosion and erosion over long time periods
- » Protection against abrasion and/or cavitation



Novocoat SP2000AR Ceramic Coating lining in a tank sump

NOVOCOAT SC2200 RAPID SET PIPE COATING

Novocoat SC2200 Rapid Set Pipe Coating is a 100% solids novolac epoxy coating that is fast-setting and cures down to 0°C (32°F). The unique chemistry of Novocoat SC2200 Rapid Set Pipe Coating provides excellent chemical resistance, corrosion protection, cathodic disbondment properties, heat resistance, and adhesion to steel and organic coatings. Cured films up to 40 mils DFT provide an excellent balance of flexibility and toughness, making it highly versatile for a variety of petrochemical and industrial applications.

FEATURES:

- » 100% solids, no VOCs
- » High film build in a single coat
- » Resistance to cathodic disbondment up to 212°F (100°C)
- » Quick return-to-service under proper cure conditions
- » Exterior coating for buried pipelines, valves and fittings
- » Girth weld coating
- » Internal lining for pipeline and tanks
- » New construction and repair, field digs

NOVOCOAT SC3300 NOVOLAC EPOXY LINING

Novocoat SC3300 Novolac Epoxy Lining Series epoxy linings feature a solvent-free formula engineered to withstand temperatures up to 350°F (177°C), depending upon chemical service, using a single coat application. These linings, which may be applied using plural component spray equipment, provide corrosion protection for tank interiors, secondary containment, process floors, pipeline interiors and exteriors, trenches, and sumps and more. Meets API-652 performance specifications for reinforced thick-film linings for extended storage tank inspection intervals.

FEATURES:

- » 100% solids, no VOCs
- » Up to 14-day recoat window
- » Ambient cure-no post-cure required
- » As short as 24-hour return-to-service
- » Immersive heat resistance up to 350°F (177°C)

NOVOCOAT DTM Epoxy

Novocoat DTM Epoxy is a high-grade, nonflammable, corrosion-resistant material. It's a two-part epoxy with corrosion-resistant fillers that can be used for any environment. Novocoat DTM Epoxy can be applied over manually prepared surfaces to provide a primer or a top coat for corroded areas where blasting is not allowed.

FEATURES:

- » 100% solids
- » Nonflammable
- » Excellent corrosion resistance
- » High adhesion
- » Long-term protection



*Novocoat SC2200 Rapid Set Pipe Coating applied on outside.
Novocoat SC3300 Novolac Epoxy Lining applied inside.*



*Novocoat DTM Epoxy applied on outside.
Novocoat SC3300 Novolac Epoxy Lining coated inside.*

NOVOCOAT SG2500 LINING

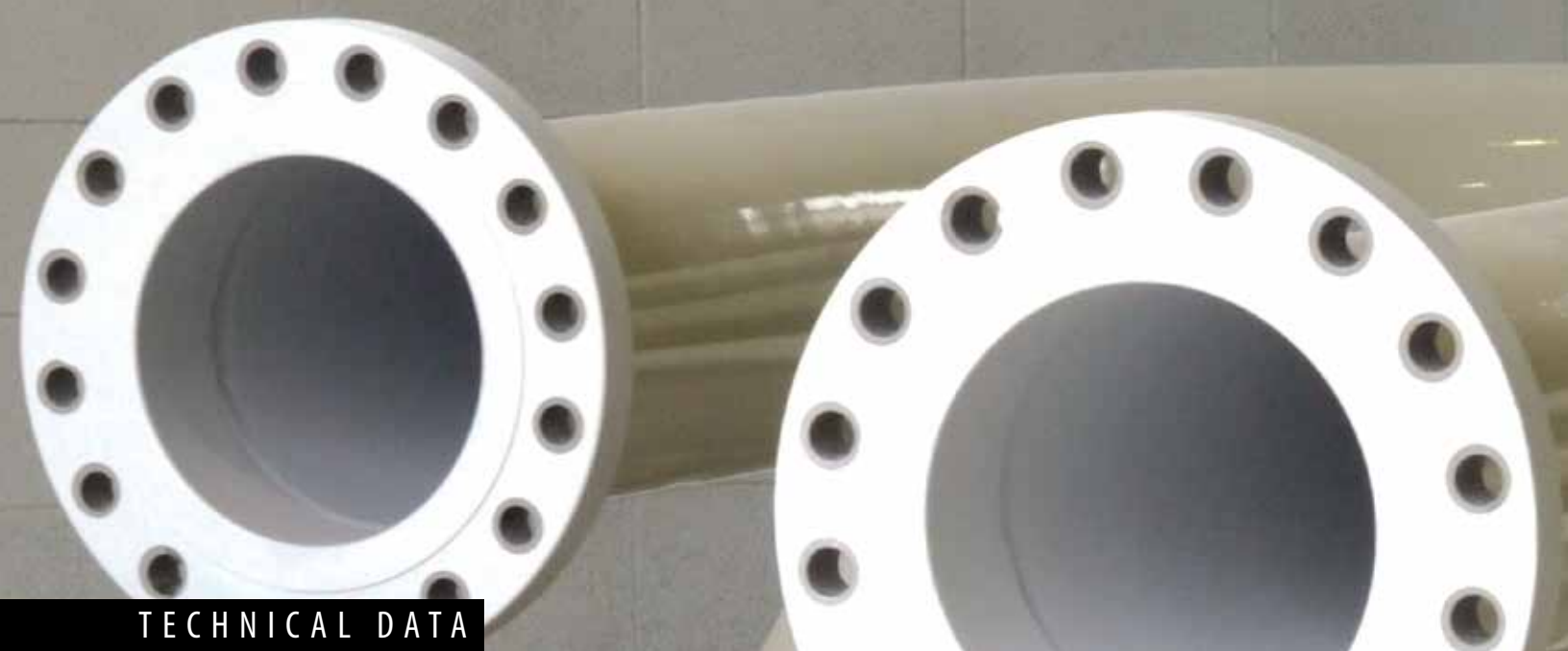
The Novocoat SG2500 Lining is a 100% solids high-build epoxy coating for metal and concrete substrates in a variety of applications. Typical applications include wastewater conveyance and collection systems (tanks, lift stations, wet wells and manholes), cooling towers and more. Novocoat SG2500 Linings can also be used as interior or exterior pipe linings or coatings.

FEATURES:

- » 100% solids, no VOCs
- » Can be spray applied at 125 mils in a single pass
- » Excellent immersion resistance



Novocoat SG2500 Lining high build epoxy application.



TECHNICAL DATA

Metal Repair Products

PRODUCT COMPARISON & SPECIFICATIONS

NOVOCOAT PRODUCT	BELZONA PRODUCT	ARC CHESTERTON PRODUCT
Novocoat EP3900 Machinable Paste	1111 Super Metal	ARC 10
Novocoat SP2000AR Ceramic Coating	1321 Ceramic S Metal	ARC SD4i
Novocoat R1900 Quick Repair	1211/1221	ARC 5
Novocoat SC3900 Adhesive Paste/Caulk	1121	ARC 858
Novocoat EP5700 Ceramic Paste	1311/1511	ARC HT-T
Novocoat SP2000W Lining	5811	ARC S2
Novocoat SC3100 HT Lining	1341 Supermetal Glide	ARC HT-S
Novocoat EP4900 Ceramic Carbide	1811/1812 Ceramic	ARC BX1/BX2
Novocoat SC5400 Lining	1392	ARC-S5
Novocoat EP3800 Ceramic Carbide		ARC MX1

Novocoat SC3300 Novolac Epoxy Lining on the inner surface, Novocoat SC2200 Rapid Set Pipe Coating on the outer surface.



NOVOCOAT PRODUCT	ADHESION ASTM D4541	ABRASION ASTM D4060 <small>CS17 Wheel 1000 Cycles 1 kg Load Weight Loss</small>	ROCKWELL HARDNESS ASTM D2240	COMPRESSIVE STRENGTH ASTM D695	FLEXURAL STRENGTH ASTM D790	TENSILE SHEAR ADHESION ASTM D1002
EP3900	>2,500 psi	45 mg	>80	>17,500 psi	>13,000 psi	>3,000 psi
SP2000AR	>3,000 psi	40 mg	>80	>15,000 psi	>13,000 psi	>3,000 psi
R1900	>2,500 psi	35 mg	>80	>15,500 psi	>13,000 psi	>3,000 psi
SC3900	>2,500 psi	40 mg	>80	>16,000 psi	>13,000 psi	>3,500 psi
EP5700	>2,500 psi	35 mg	>80	>15,500 psi	>13,000 psi	>3,500 psi
SP2000AR	>2,500 psi	23 mg	>80	>15,000 psi	>13,000 psi	>3,000 psi
SC3100 HT	>3,000 psi	42 mg	>80	>16,000 psi	>13,000 psi	>3,500 psi
EP4900	>2,500 psi	25 mg	>80	>17,000 psi	>13,000 psi	>3,500 psi
EP3300	>3,000 psi	35 mg	>80	>15,500 psi	>13,000 psi	>3,000 psi
SC5400	>3,000 psi	37 mg	>80	>15,500 psi	>13,000 psi	>3,500 psi
DTM Epoxy	>2,500 psi	56 mg	>70	>12,000 psi	>11,000 psi	>2,000 psi

About Armor:

For 40 years, Armor has been a leader in providing high-performance linings, coatings and corrosion-resistant solutions for demanding applications in petrochemical markets. With an extensive portfolio of long-lasting, chemical-resistant products designed for sustained immersion in aggressive chemical and slurry applications, Armor can provide the right solution for your corrosion concerns.

Armor's Novocoat coating solutions emerged out of America's growing concern for the environment. As a result, Novocoat has developed carefully engineered, 100% solids coating products that provide better and broader-based protection than conventional products, are easy to apply, and safe for the user as well as the environment.

Novocoat remains the preferred coating choice for our customers. From harsh chemical/immersion and heat environments, to marine, oil and gas, and wastewater, you can count on Novocoat's 100% solids, no solvents, VOC-free coatings to provide the best coverage to protect your assets and infrastructure. No hazardous waste. No solvents. Just simple, long-lasting service and time tested, safe solutions for your maintenance and protection needs.



You've built it. Now let Armor protect it.

We provide advanced surface protection solutions to a diverse range of harsh environments.

With Armor, you can be assured that our depths and strengths stand behind the solutions we offer. Let us be the manufacturing and technical resource you turn to for answers in protecting and maintaining the investment you have made in your industry.



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Ordering Information

For additional information, prices or to place an order, please contact your Armor sales representative. If you do not know the name of your sales representative, call either of the phone numbers above.