



ErgonArmor™



# 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. ErgonArmor 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 ErgonArmor surface protection systems.*





## PRODUCT DESCRIPTIONS

# Repair & Rebuilding Solutions

METAL PARTS & SURFACES

### NOVOCOAT EP4910 CERAMIC CARBIDE

Novocoat EP4910 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 Ceramic Carbide 4910 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 EP3920 MACHINABLE GRADE

Novocoat EP3920 Machinable Grade 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 EP3920 Machinable Grade 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 EP3920 Machinable Grade**.  
**Novocoat SC5400** applied as topcoat.*



*Pitted and worn steel rebuilt with **Novocoat EP3920 Machinable Grade**.*

## **NOVOCOAT EP3310 PASTE/CAULK**

Novocoat EP3310 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 EP5720 CERAMIC PASTE**

Novocoat EP5720 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 EP5720 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 EP5720 Ceramic Paste.***

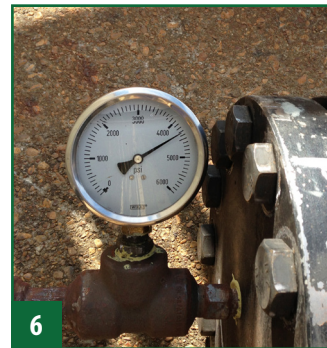
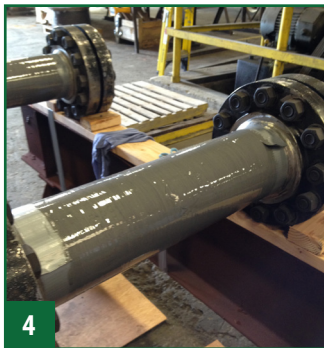
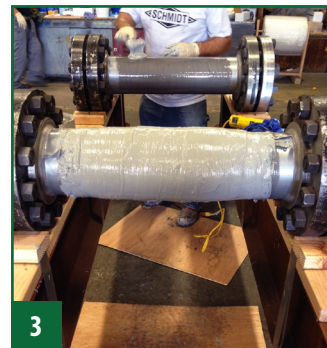


## NOVOCOAT R1920 QUICK REPAIR COMPOUND

Novocoat R1920 Quick Repair Compound 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 R1920 Quick Repair Compound**.
3. Pipe wrapped with fiberglass wetted out with **Novocoat SC3000 Series** 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 Series lined fittings*



## PRODUCT DESCRIPTIONS

*Novolite Repair Mortar*

# Concrete Repair Solutions

DIVERSE SURFACES

## NOVOCOAT HF1200 HIGH FRICTION SURFACE

Novocoat HF1200 High Friction Surface (HFS) is an epoxy polymer overlay designed to enhance the surface friction of asphalt or Portland cement concrete pavements. A 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 HFS overlay 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





## **NOVOCOAT ER2000 ELASTOMERIC LIQUID EPOXY**

Novocoat ER2000 Elastomeric Liquid Epoxy can be used as sealant for secondary containment and other structures; crack-bridging base coats for compatible coatings; pourable joint filler for expansion joints or large stress cracks; or topcoats on substrates subject to cracking, high vibration or other movement. ER2000 can be applied to a wide variety of surfaces, including metal or concrete, and tolerates less than ideal surface conditions.

### **FEATURES:**

- » 100% solids
- » Fair chemical resistance
- » Good UV stability
- » Outstanding adhesion
- » Can be applied to asphalt and concrete secondary containment structures
- » Can be applied over geotextiles to form barriers over sand, dirt or rock

## **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 SC1100 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 Series*

## PRODUCT DESCRIPTIONS

# Liquid Coating Solutions

BRUSHABLE/SPRAYABLE

### **NOVOCOAT SC5400**

Novocoat SC5400 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, Novocoat SC5400 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

## **SP2000AR | Abrasion Resistant Overcoat (ARO)**

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SP2000AR 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



*SP2000AR lining in a tank sump*

## **NOVOCOAT SC2200 RAPID SET PIPE COATING**

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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 SERIES**

Novocoat SC3300 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 RI80 DTM Surface Tolerant Epoxy**

Novocoat RI80 DTM Surface Tolerant 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. RI80 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 Series** applied inside.*



***Novocoat RI80 DTM Surface Tolerant Epoxy** applied on outside. **Novocoat SC3300 Series** coated inside.*

## NOVOCOAT SG2500

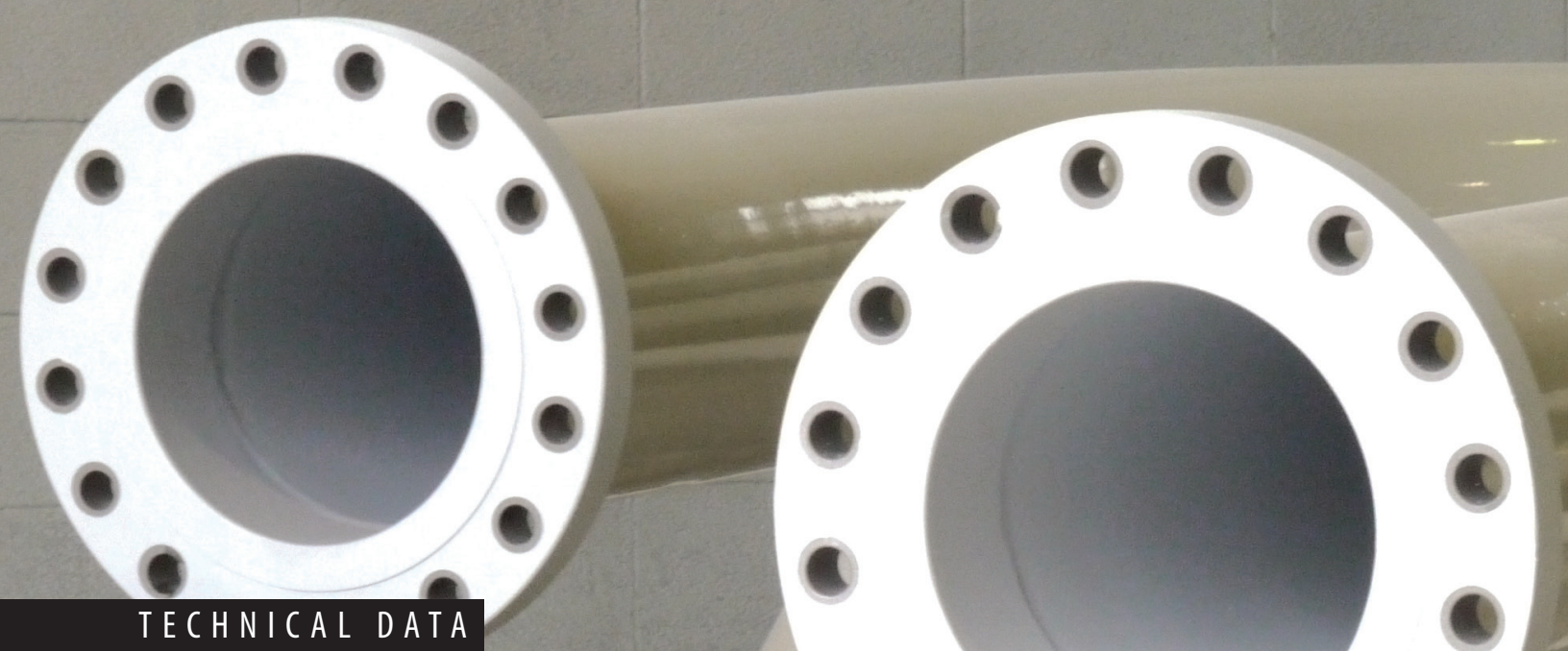
The Novocoat SG2500 is a 100% solids high-build epoxy coating for metal and concrete substrates in a variety of applications. Typical applications include wastewater conveyance and collection systems (tanks, lift stations, wet wells and manholes), cooling towers and more. Products in the SG2500 Series 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 high build epoxy application.*



TECHNICAL DATA

# Metal Repair Products

PRODUCT COMPARISON & SPECIFICATIONS

NOVOCOAT PRODUCT	BELZONA PRODUCT	THORTEX PRODUCT
<b>Novocoat EP3920 Machinable Grade</b>	1111 Super Metal	Metal Tech EG
<b>Novocoat SP2000AR Abrasion Resistant Ceramic Coating</b>	1821 Fluid Metal	Metal Tech FG
<b>Novocoat R1920 Quick Repair Compound</b>	1211/ 1221	Metal Tech RG
<b>Novocoat SC3910 Ceramic Repair Paste</b>	1121	Metal Tech XG
<b>Novocoat EP5720 Ceramic Paste</b>	1311 Ceramic R Metal	Cerami Tech EG
<b>Novocoat SP2000 Abrasion Resistant Ceramic Coating</b>	1321 Ceramic S Metal	Cerami Tech FG
<b>Novocoat SC3100 Liquid Epoxy</b>	1341 Supermetal Glide	Cerami Tech CR
<b>Novocoat Ceramic Carbide 4910</b>	1812 Ceramic	Cerami Tech HG
<b>Novocoat EP3310 Epoxy Paste/Caulk</b>	1391 Ceramic	Cerami Tech HTX
<b>Novocoat SC5400</b>	1392	
<b>Novocoat SC2200 Rapid Set Pipe Coating</b>	1831	

Novocoat SC3300 Series on the inner coating, Novocoat SC2200 series on the outer coating



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
<b>EP3920</b>	>2,500 psi	45 mg	>80	>17,500 psi	>13,000 psi	>3,000 psi
<b>SP2000AR</b>	>3,000 psi	40 mg	>80	>15,000 psi	>13,000 psi	>3,000 psi
<b>R1920</b>	>2,500 psi	35 mg	>80	>15,500 psi	>13,000 psi	>3,000 psi
<b>SC3910</b>	>2,500 psi	40 mg	>80	>16,000 psi	>13,000 psi	>3,500 psi
<b>EP5720</b>	>2,500 psi	35 mg	>80	>15,500 psi	>13,000 psi	>3,500 psi
<b>SP2000AR</b>	>2,500 psi	23 mg	>80	>15,000 psi	>13,000 psi	>3,000 psi
<b>SC3100</b>	>3,000 psi	42 mg	>80	>16,000 psi	>13,000 psi	>3,500 psi
<b>EP4910</b>	>2,500 psi	25 mg	>80	>17,000 psi	>13,000 psi	>3,500 psi
<b>EP3310</b>	>3,000 psi	35 mg	>80	>15,500 psi	>13,000 psi	>3,000 psi
<b>SC5400</b>	>3,000 psi	37 mg	>80	>15,500 psi	>13,000 psi	>3,500 psi
<b>SC1100</b>	>2,500 psi	89 mg	75	>11,000 psi	>11,000 psi	>2,000 psi
<b>R180</b>	>2,500 psi	56 mg	70	>12,000 psi	>11,000 psi	>2,000 ps

# About ErgonArmor:

For 40 years, ErgonArmor 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, ErgonArmor can provide the right solution for your corrosion concerns.

ErgonArmor'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 ErgonArmor protect it.

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

With ErgonArmor, 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 ErgonArmor sales representative. If you do not know the name of your sales representative, call **877-98ARMOR**.

