

ErgonArmor™ Novocoat™ EP3800 Ceramic Carbide SC

SELECTION & SPECIFICATION DATA

Type Ceramic-filled Novolac Epoxy

Description Novocoat EP3800 Ceramic Carbide SC is a high-

performance, ceramic-filled novolac epoxy repair/wear compound for highly abrasive service. It is available in

SC grade with longer working life.

Features • No VOCs

· Outstanding abrasion resistance

• Application and cure at room temperature

· No shrinkage, expansion or distortion

· Quick return-to-service

Uses • Metal repair

Coal chutes and silos

· Rock crushers

· Dry bag houses

Ball mills

Non-skid

Color Blue

Finish Matte

Solids 99 - 100% by volume Content

SUBSTRATES & SURFACE PREPARATION

All Substrate must be clean, dry and free of contaminants.

Steel Immersion: SSPC-SP 10/NACE 2 Near White Metal Blast

with angular profile of 2.5 - 3.5 mils.

Non-immersion: SSPC-SP 6/NACE 3 Commercial Blast with angular profile of 1.5 - 3.0 mils, SSPC-SP 2 Hand Tool or SSPC-SP 3 Power Tool Cleaning are suitable for

mild environments.

Self-priming on steel.

Weld Repair Use a flame to sweat out oil from deeply impregnated

surfaces. Stabilize cracks by drilling the extremities. Long cracks should be drilled, tapped and bolted every few inches. Vee-out all cracks using a file.

Degrease using clean rags.

MIXING & THINNING

Ratio 1A:1B by volume

Mixing Mix equal parts of the resin and hardener thoroughly

until color of material is uniform and free of streaks.

Thinning Do not thin.

Pot Life 40 minutes at 77°F (25°C)

Pot life is shorter at higher temperatures. A larger volume of mixed material will have a shorter pot life

than a smaller volume.

Cleanup MEK or Acetone

APPLICATION GUIDELINES

Conditions Substrate surface temperature 50°F - 140°F (10°C - 60°C)

and at least $5^{\circ}F$ ($3^{\circ}C$) above the dew point and rising. If surface temperature is above $140^{\circ}F$ ($60^{\circ}C$), consult ErgonArmor Technical Service for guidance.

Application Apply directly onto the prepared surface with the

spreader or mixing knife provided. Press down firmly to remove entrapped air, fill all cracks, and ensure maximum contact with the surface. Use reinforcement

cloth over holes and cracks.

Brush & Brush or roller can be used to smooth uncured surface

Roller with solvent if desired.

CURE SCHEDULE & RECOAT WINDOW

| SUBSTRATE TEMPERATURE | WORKING TIME | DRY-TO- TOUCH | MAXIMUM RECOAT | TIME TO 80 SHORE D HARDNESS |
|--------------------------|-----------------|------------------|-------------------|-----------------------------------|
| 41°F (5°C) | 1.5 hours | 3 hours | 7 days | 35 hours |
| 50°F (10°C) | 1 hour | 2.5 hours | 48 hours | 24 hours |
| 77°F (25°C) | 40 min | 75 min | 24 hours | 7 hours |



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PACKAGING, ESTIMATING & HANDLING

| ITEM# | PRODUCT | PACKAGING | |
|-------------------------|---|--|--|
| M-EP3850-6LBKT-01 | Novocoat EP3800 Ceramic Carbide SC, Blue | 6 lbs (2.7 kg) Kit | |
| | - Part A Resin, Light Gray - Part B Hardener, Blue | 2.8 lb (1.3 kg) Pail 3.2 lb (1.5 kg) Jar | |
| M-EP3850-25LBKT-01 | Novocoat EP3800 Ceramic Carbide SC, Blue | 25 lb (11.3 kg) Kit | |
| | - Part A Resin, Light Gray - Part B Hardener, Blue | 11.7 lb (5.3 kg) Pail 13.3 lb (6 kg) Pail | |
| The austical | 0.16 square feet per 25 lb k | it at 250 mil | |
| Theoretical Coverage | 9.16 square feet per 25 lb kit at 250 mil 2.20 square feet per 6 lb kit at 250 mil Allow for loss in mixing and application. | | |
| | Allow for loss in mixing and | а аррисацоп. | |
| Storage & Shelf Life | Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 24 months for part A and 6 months for part B when stored in a dry area at 75°F (24°C). Actual shelf life may vary with storage conditions. Do not store below 40°F (4°C) or above 110°F (43°C). | | |
| | If there is any question with respect to the quality | | |

SAFETY

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

of the components, check reactivity prior to use.

For assistance consult with ErgonArmor.

Ventilation

Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

| PROPERTY | VALUE | |
|---|---|--|
| Dry adhesion ASTM D4541 Blasted steel 1 coat | >2,800 psi (19 MPa) | |
| Flash point ASTM D1310 | >200°F (93°C) | |
| Taber abrasion ASTM D4060 1000 cycles, H-22 wheels dry, 1 kg load | 455 mg loss 15.8 mils loss 63.2 cycles per mil loss | |
| Flexural Strength ASTM D790 | 1,680 psi (12 Mpa) | |
| Coefficient of thermal expansion | 1.1 x 10 ⁻⁶ /°F (2.0 x 10 ⁻⁶ /°C) | |
| Thermal stability Weight loss after 48 hours at 300°F (149°C) | 0.0003 g | |
| Specific gravity | Part A: 2.07 Part B: 2.25 | |
| VOC | 0 lb/gal (0 g/L) | |
| Density | 18.3 lb/gal (2.2 kg/L) | |

SERVICE TEMPERATURE

| SERVICE | MAXIMUM TEMPERATURE |
|--------------|---------------------|
| Dry | 250°F (121°C) |
| Splash/spill | 200°F (93°C) |
| Immersion | 150°F (66°C) |

Temperature limitations will vary with chemical exposure. Consult ErgonArmor Technical Service for guidance.

Rev. 06/2025

TERMS AND CONDITIONS OF SALE

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