

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. Novocoat EP3800 Ceramic Carbide is available in SC grade with longer working life and FC grade with faster cure.

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 crushersDry bag housesBall mills

Non-skid

• NON-SKIC

Matte

Color Blue

Solids 99 – 100% by volume

Content

Finish

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

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 GUIDANCE

Conditions Substrate surface temperature 50°F – 140°F (10°C –

60°C) and at least 5°F (3°C) above the dew point and rising. If surface temperature is above 140°F (60°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 & Roller Brush or roller can be used to smooth uncured surface

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 |

SAFETY

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.

Ventilation Provide thorough air circulation during and after

application until the material has cured when used in

enclosed areas.

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) Pail |
| M-EP3850-25LBKT-01 | Novocoat EP3800 Ceramic Carbide SC, Blue | 25 lb (11.4 kg) Kit |
| | - Part A Resin, Light Gray - Part B Hardener, Blue | 11.7 lb (5.3 kg) Pail 13.3 lb (6 kg) Pail |
| | 6 1 6 1 1 2 2 5 6 1 1 | |

Allow for loss in mixing and application.



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Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 12 months when stored in unopened packages, 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 of the components, check reactivity prior to use. For assistance consult with ErgonArmor.

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, 1 kg load | 80 mg loss 333 cycles per mil loss |
| 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.

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TERMS AND CONDITIONS OF SALE

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