

ErgonArmor™ Novocoat EP3800 Ceramic Carbide SC

SELECTION & SPECIFICATION DATA

Type Ceramic-filled Novolac Epoxy

Description Novocoat EP3800 Ceramic Carbide SC is a highperformance, ceramic-filled novolac epoxy repair/

wear compound for highly abrasive service.

Features • No VOCs

Outstanding abrasion resistance

Application and cure at room temperatureNo shrinkage, expansion or distortion

• Quick return-to-service

Uses • Metal repair

Coal chutes and silosRock crushers

Dry bag housesBall mills

• Non-skid

Finish Matte

Solids 99 – 100% by volume

Blue

Content

Color

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.

Substrate 50°F – 14 Temperature <90% rela

 $50^{\circ}\text{F} - 140^{\circ}\text{F} (10^{\circ}\text{C} - 60^{\circ}\text{C})$ <90% relative humidity

If >140°F (60°C), consult ErgonArmor Technical

Service.

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 25 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

Application Apply directly onto the prepared surface with the

plastic applicator or spatula 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 hour	3 hours	7 days	33 hours
50°F (10°C)	30 min	2.5 hours	48 hours	24 hours
77°F (25°C)	25 min	50 min	24 hours	6.5 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.

ESTIMATING & PACKAGING

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.

Package Sizes Blue, 6 lbs (2.7 kg) Kit

- Part A Resin Light Gray, 3 lbs (1.36 kg) Pail

- Part B Hardener Blue, 3 lbs (1.36 kg) Pail

Item #: M-EP3850-6LBKT-01

Blue, 25 lbs (11.4 kg) Kit

- Part A Resin Light Gray, 11.8 lbs (5.35 kg) Pail

- Part B Hardener Blue, 13.2 lbs (6.00 kg) Pail

Item #: M-EP3850-25LBKT-01



TYPICAL PHYSICAL PROPERTIES

TEST METHOD	RESULTS
Dry adhesion ASTM D4541 Blasted steel 1 coat	>2,800 psi
Flash point ASTM D1310	>200°F (93.5°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
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 g/l
Density	18.32 lbs/gal

SERVICE TEMPERATURE

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

^{*}Immersion with solvents, mineral acids, or alkalis, or if over 150°F (66°C), consult ErgonArmor Technical Service.

STORAGE & SHELF LIFE

Shelf Life Part A: 24 months at 75°F (24°C)

Part B: 12 months at 75°F (24°C)

When stored under recommended conditions.

Storage Conditions 40°F - 110°F (4°C - 43°C) 0 - 100% relative humidity

Store in a dry area out of direct sunlight. Maintain product in original packaging and sealed until ready

for use.

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TERMS AND CONDITIONS OF SALE

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