

# **Ergon**Armor™ 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

Color Blue

Finish Matte

Solids Content 99 – 100% by volume

#### **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 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**

**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 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.

## **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	3 lb (1.36 kg) Pail 3 lb (1.36 kg) Pail
M-EP3850-25LBKT-01	Novocoat EP3800 Ceramic Carbide SC, Blue	25 lb (11.4 kg) Kit
	- Part A Resin, Light Gray	11.8 lb (5.35 kg) Pail
	- Part B Hardener, Blue	13.2 lb (6.00 kg) Pail

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.



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Storage & Shelf Life

Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 24 months for part A and 12 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 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 <sup>-6</sup> /°F (2.0 x 10 <sup>-6</sup> /°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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