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SELECTION & SPECIFICATION DATA

Туре	Ceramic-filled Novolac Epoxy	
Description	Novocoat EP3800 Ceramic Carbide FC is a fast-setting, high-performance ceramic-filled novolac epoxy repair/wear compound for highly abrasive service. Novocoat EP3800 Ceramic Carbide is available in FC grade with faster cure and 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 	
Color	Red	
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

Degrease using clean rags.

every few inches. Vee-out all cracks using a file.

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	5 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
APPLICATIO	N GUIDELINES
APPLICATION Conditions	N GUIDELINES 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.
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CURE SCHEDULE & RECOAT WINDOW

SUBSTRATE TEMPERATURE	Working Time	DRY-TO- TOUCH	MAXIMUM RECOAT	TIME TO 80 SHORE D HARDNESS
41°F (5°C)	Not workable	40 min	24 hours	4 hours
50°F (10°C)	10 min	30 min	12 hours	3 hours 15 min
77°F (25°C)	5 min	20 min	2 hours	1 hour 40 min



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PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
M-EP3840-6LBKT-01	Novocoat EP3800 Ceramic Carbide FC, Red - Part A Resin, Light Gray - Part B Hardener, Red	6 lb (2.7 kg) Kit 2.8 lb (1.3 kg) Pail 3.2 lb (1.5 kg) Jar
M-EP3840-25LBKT-01	Novocoat EP3800 Ceramic Carbide FC, Red - Part A Resin, Light Gray - Part B Hardener, Red	25 lb (11.4 kg) Kit 11.7 lb (5.3 kg) Pail 13.3 lb (6 kg) Pail
Theoretical Coverage	2.1 square feet per 6 lb uni 8.7 square feet per 25 lb ur Allow for loss in mixing and	nit at 250 mils
Storage & Shelf Life	Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 12 months for part A and 6 months for part B 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 wit of the components, check For assistance consult with	reactivity prior to use.
<u>SAFETY</u>		
Safety	Mixes and applications of t number of hazards. Read a information, precautions a the individual product labe sheets before using.	nd follow the hazard nd first aid directions on
Ventilation	Provide thorough air circul application until the mater 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	430 mg loss 15 mils loss 66.8 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 (65°C)

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

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