

ERS 610 SUPER CERAMIC

SELECTION & SPECIFICATION DATA

. Type

Ceramic-filled Novolac Epoxy

Description

ERS 610 Super Ceramic is a high performance ceramic filled novolac epoxy repair/wear compound for severe environments such as coal chutes, coal silos, rock crushers, and dry bag houses.

Features

- » 100% solids, no VOCs
- » Outstanding abrasion resistance
- » Application and cure at room temperature no hot work involved
- » No shrinkage, expansion or distortion
- » Quick return-to-service under proper cure conditions
- » Meets the performance requirements of AWWA C210 and FDA requirement 21 CFR 175.300 for food contact

Uses

- » Chutes
- » Hoppers
- » Silos

· Color

Light Gray, Blue

Finish

Matte

· Solids Content

99-100% solids by volume

SUBSTRATES & SURFACE

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

Mixing

Do not mix partial kits. For small kits, transfer the entire contents of the resin and hardener onto the mixing board. For large kits, completely empty the hardener container into the resin container, scraping it clean. Mix together thoroughly until color of material is uniform and free of any streaks.

Thinning

Do not thin.

Pot Life

40 minutes at 75°F (24°C)

Cleanup

MEK or Acetone

APPLICATION GUIDELINES

Conditions

Substrate surface temperature $50^{\circ}F - 140^{\circ}F$ ($10^{\circ}C - 60^{\circ}C$) 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 Engineered Resin Solutions 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.

CURESCHEDULE & RECOAT WINDOW

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	RETURN TO SERVICE (HYDROCARBON IMMERSION)
50°F (10°C)	1 hour	48 hours	7 days
77°F (25°C)	1 hour	36 hours	24 hours
140°F (60°C)	15 minutes	45 minutes	4 hours

Return-to-service varies with chemical exposure. Consult Engineered Resin Solutions for guidance.



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COVERAGE AND SHELF LIFE

Theoretical Coverage

6.30 square feet at 250 mil per 16.5 lb unit 1.26 square feet at 250 mil per 3.3 lb unit Allow for loss in mixing and application.

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 ERS.

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.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	VALUE	
Dry adhesion ASTM D4541 Blasted steel 1 coat	>2,800 psi (19 MPa)	
Flash point ASTM D1310	Greater than 200°F (93°C)	
Taber abrasion ASTM D4060 1000 cycles, H-22 wheels dry, 1 kg load	465 mg loss 21.2 mils loss 48.1 cycles per mil loss	
Flexural Strength ASTM D790	7,870 psi (54 Mpa)	
Coefficient of thermal expansion	1.1 x 10-6/°F (2.0 x 10-6/°C)	
Thermal stability 48 hours at 300°F (149°C)	0.0003 gram loss	
Specific gravity	Part A: 2.32 Part B: 1.48	
VOC	0 lb/gal (0 g/L)	
Density maximum	16.5 lb/gal (2.0 kg/L)	
Meets the performance requirements of AWWA C210		

TEMPERATURE RESISTANCE

SERVICE	MAXIMUM TEMPERATURE
Dry	360°F (182°C)
Splash/spill	250°F (121°C)
Immersion	175°F (79°C)

Temperature limitations will vary with chemical exposure. Consult Engineered Resin Solutions for guidance.

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