

RR&C Ceramic Carbide Repair Material

SELECTION & SPECIFICATION DATA

Type	Ceramic-filled Novolac Epoxy
Description	RR&C Ceramic Carbide Repair Material 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 requirement of AWWA C210
Uses	• Coal chutes and silos • Dry bag houses • Non-skid • Rock crushers
Color	Light gray
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. De-grease 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) 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 GUIDELINES

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 with your Sherwin-Williams representative 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

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 will vary with chemical exposure. Consult with your Sherwin-Williams representative for guidance.

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PACKAGING, ESTIMATING & HANDLING

ITEM#	PRODUCT	PACKAGING
CC-QTCS-SW	RR&C Ceramic Carbide Repair Material, Light Gray Case includes 1 mixing board. Each kit includes: - Part A Resin, Light Gray - Part B Hardener - Mixing knife, spreader	4 x 3.3 lb (1.5 kg) Kits 3 lb (1.4 kg) Jar 0.3 lb (0.13 kg) Jar
CC-1GLKT-SW	RR&C Ceramic Carbide Repair Material, Light Gray - Part A Resin, Light Gray - Part B Hardener	16.5 lb (7.48 kg) Kit 15 lb (6.8 kg) Pail 1.5 lb (0.68 kg) Jar

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 your Sherwin-Williams representative.

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)

SERVICE TEMPERATURE

SERVICE	MAXIMUM TEMPERATURE
Dry	360°F (182°C)
Splash/spill	300°F (149°C)
Immersion	240°F (115°C)

Temperature limitations will vary with chemical exposure. Consult with your Sherwin-Williams representative for guidance.

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