



Novocoat Ceramic Carbide 4910

SELECTION & SPECIFICATION DATA

Generic Type	Ceramic filled Novolac Epoxy
Description	Novolac Ceramic Carbide (EP4910) is a high performance ceramic filled novolac repair/wear compound for severe environments such as coal chutes, coal silos, rock crushers, and dry bag houses. EP4910 offers exceptional abrasion resistance, cures in very low temperatures and tolerates less than optimal substrate conditions.
Features	• 100% solids, No VOC's • 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 • FDA compliant to CFR 175.105 & 175.300
Typical Uses	• Coal chutes & silos • Dry bag houses • Non-skid
Color	Gray (EP4910)
Finish	Matte
Primer	Self-priming
Solids Content	By Volume 100% +/- 1%
Theoretical Coverage Rate	6.30 sq ft at 250 mil per 7.5KG unit 1.26 sq ft at 250 mil per 1.5KG unit Allow for loss in mixing and application.

SUBSTRATES & SURFACE PREPARATION

General	Surfaces must be clean and dry. Remove all dirt, dust, oil and all other contaminant.
Steel	Immersion: SSPC-SP10 Near White with jagged profile of 2.5 – 3.5 mils. Non-immersion: SSPC-SP6 1.5-3.0 mils SSPC-SP2 or SP3 are suitable cleaning methods for mild environments.
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 Temperature	Surface should be at least 10°C (50°F) and relative humidity not to exceed 90%. Maximum substrate temperature should be kept to 60°C. Contact ErgonArmor for conditions where the substrate temperature exceeds 60°C.
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MIXING & THINNING

Mixing	DO NOT MIX PARTIAL KITS. Transfer the entire contents of the Resin and Hardener on to the plastic mix board. Mix thoroughly together until color of material is uniform and free of any streaks.
Thinning	No Thinning Use of thinners other than those supplied or recommended by ErgonArmor may adversely affect product performance and void product warranty, whether expressed or implied.
Ratio	6:1 Ratio (A to B) by Volume 10:1 Ratio (A to B) by Weight
Pot Life	40 minutes at 75°F (24°C) Pot life times will be less at higher temperatures.

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Application (General)	This is a 100% solids coating and may require adjustments in application techniques. Wet film thickness is easily and quickly achieved. Apply directly on to 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 tape over holes and cracks. Fully machinable using conventional tools once cured.
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Brush & Roller (General)	Brush or roller can be used to smooth uncured surface with solvent if desired.
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CLEANUP & SAFETY

Cleanup	Use MEK or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product. Wear protective clothing and gloves.

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Ventilation

When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. User should test and monitor exposure levels to insure all personnel are below guidelines.

PACKAGING, HANDLING & STORAGE

Shelf Life

Part A: 24 months at 75°F (24°C)
 Part B: 12 months at 75°F (24°C)

Shipping Weight (Approximate)

4 X 1.5KG kit per case 16lbs (7.27KG)
 10 X 1.5KG kit per case 38lbs (17.27KG)
 1 X 7.5KG kit 17.3lbs. (7.86KG)

Storage Temperature & Humidity

40° – 110°F (4° – 43°C)
 0 – 100% Relative Humidity

Storage

Store in a dry, well-ventilated area. Maintain products in original packaging and sealed until ready for use. Avoid exposure to direct sunlight or any adverse environmental conditions that would cause contamination. Refer to Safety Data Sheet for additional information.

PERFORMANCE DATA

Adhesion	ASTM D-4541 DryBlasted Steel 1 ct.	>2,800 psi
Flash Point	ASTM D 1310	greater than 200°F (93.5°C)
Tabor Abrasion	ASTM D 4060 1000 cycles, H-22 Wheels, 1KG load	110 mg. 83 cycles per mil
Coefficient of Thermal Expansion (10-6/per °F)	1.1	
Thermal Stability	Weight loss after 48hours at 300°F)	0.0003 grams
Specific Gravity	Part A : 2.3236	Part B : 1.4758
VOC lbs/gallon	0 grams/liter	
Weight per gallon	16.50	
Dry Service	360°F (182°C)	
Splash/Spill	300°F (149°C)	
Immersion Service*	240°F (115.5°C)	

*Immersion with solvents, mineral acids, or alkalines, or if over 150°F, contact factory.

*Meets the performance requirements of AWWA C210 and FDA requirement 21 CFR 175.300 for food contact.

CURE SCHEDULE & RECOAT WINDOW

Temperature	Min Recoat	Max Recoat	Return to Service (Aqueous/ Hydrocarbon Immersion)
10°C (50°F)	1 hour	48 hours	7 days

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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 material safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user. Please contact ErgonArmor for further information at 877.982.7667 or FAX 601-933-3381. For all Terms and Conditions of Sale see ergonarmor.com.

ORDERING INFORMATION

For additional information, prices, or to place an order, please contact your ErgonArmor sales representative. If you do not know the name of your sales representative, call 877-98ARMOR.



Division of Ergon Asphalt & Emulsions, Inc.

P.O. Box 1639, Jackson, MS 39215-1639 | 601-933-3381 Fax | 877-98ARMOR | ergonarmor.com