

FULL METAL JACKET™

FMJ-1150 Ceramic Carbide Hi-Wear

PRODUCT FEATURES & BENEFITS:

FMJ Enterprises specialty coatings are providing the best in corrosion protection, while being safe for our environment and totally user friendly.

FMJ-1150 is a durable ceramic filled repair/wear compound for severe environments. FMJ-1150 offers exceptional abrasion resistance, cures in very low temperatures and tolerates less than optimal conditions. Excellent coating for slurry tanks, pump casings, chutes, and crushers.

- 100% Solids, No VOCs
- Excellent UV stability
- Excellent impact resistance & corrosion protection
- Hi-Abrasion resistance

SURFACE PREP:

Surfaces must be prepped by removing all surface contaminants and then grit blast to obtain a NACE No. 1 (SSPC-SP5) or 3 mil profile. Sweat/Bake oily chemical saturated pieces before blasting. This process should be repeated until all salts are removed.

MIXING & APPLICATION:

FMJ-1150 is a two component material mixed 7:1 by volume. The two components should be thoroughly mixed until completely streak free. Apply thin layers to surface to achieve maximum thickness desired.

TOP-COATING & JOINING ADJACENT SECTIONS:

If the compound is to be coated, apply the coating within the re-coat window (see table). If this is not possible, allow the compound to cure, then brush-blast, wire-brush or sand to create a mechanical profile on the surface before coating.

When it is necessary to join multiple sections of the compound to create a continuous protective layer over a large area, do not attempt to feather and overlap adjoining sections. If adjoining sections cannot be applied within the re-coat window (see table below), continue the full thickness of the compound up to the joint between sections. Allow the first section to cure, and then create a mechanical profile, using one of the means listed above, on the edge that will be joined to the next section to ensure a satisfactory bond.

PHYSICAL PROPERTIES:

Color	Dark Grey
Coverage per 1.5 kg (Theoretical)	45 cu/in per unit
Mix Ratio by Volume	7:1 (Resin: Hardener)
Flash Point	>200°F (93.5°C)
Pull-Off Adhesion Test ASTM D 4541	Minimum adhesion is 2850 psi
Coefficient of Thermal Expansion (10-6/per °F)	1.1
Thermal Stability (weight loss after 48 hours @ 300 °F)	0.0003 grams
Specific Gravity	Resin: 2.18 Hardener: 1.21
Volatile Organic Compounds (VOC)	0 grams/liter
Weight per 1.5 kg	3.3 lbs
Compressive Strength ASTM D695	14350 psi
Flexural Strength ASTM D790	6000 psi
Hardness ASTM D 785	95

“Put A Jacket On It”™

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NOTE: Mix resin and hardener on provided mixing board. Do not leave in a large pile. Exotherm heat created during the curing process will considerably shorten the pot life. Spread material out on mixing board.

SERVICE TEMPERATURE:

Dry Service	400°F (205°C)
Spill/Splash	300°F (149°C)
Immersion Service*	230°F (110°C)

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

CURE TIME (68°F):

Working Time	40 minutes
Re-coat Window	1 ½ - 2 hours
Touch Dry	12 hours
Immersion (aqueous)	30 hours
Chemical Service	7 days

CHEMICAL RESISTANCE:

- Acetic Acid (up to 10%)
- Ammonium Hydroxide*
- Aromatic & Aliphatic Solvents
- Black Liquor
- Butyl Acetate
- Butyl Carbitol
- Chlorides (Most)
- Hydrochloric Acid (up to 35%)
- Hydrogen Sulfide
- Isopropyl Alcohol
- Mineral Acids
- Nitric Acid (up to 30%)

- Organic Acids (Mild)
- Phosphates (Most)
- Phosphoric Acid
- Potassium Hydroxide*
- Sodium Hydroxide*
- Sulfides (Most)
- Sulfuric Acid (up to 80%)
- 1,1,1-Trichloromethane
- Urea Solutions
- White Liquor

*Ambient temperature only

ORDERING INFORMATION:

For additional information, prices, or to place an order, please contact your Full Metal Jacket sales representative.

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