

FULL METAL JACKET™

FMJ-2100 Ceramic Paste Hi-Build

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-2100 is a two component, novolac coating designed for maximum heat and chemical resistance. Excellent repair & rebuild coating for severe fluid flow erosion corrosion problems.

- 100% Solids, No VOCs
- Excellent chemical resistance
- Maximum heat resistance
- Excellent wear resistance
- Zero shrinkage

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-2100 is a two component material mixed 4:1 by volume. The two components should be thoroughly mixed. Apply by applicator in thin layers to surface to achieve maximum thickness desired.

MULTIPLE COATS:

Second and subsequent coats must be applied before the previous coat has completely cross-linked. Apply additional coats immediately and up to re-coat window with FMJ-2100 or FMJ-4800. If any light tack remains,

allow the product to cure, then brush blast before applying the next coat.

The same requirement applies when overlapping the seams of adjacent coating section to create a continuous protective film. If the coating surface to be overlapped at the seam cannot be brush blasted, use a non-impact means such as power brushing or sanding to create a mechanical profile.

PHYSICAL PROPERTIES:

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|--|---------------------------------|
| Color | Grey |
| Coverage per 1 kg (Theoretical) | 30 cu.in. per unit |
| Mix Ratio by Volume | 4:1 (Resin: Hardener) |
| Pull-Off Adhesion Test ASTM D 4541 | Minimum adhesion is 2500 psi |
| Coefficient of Thermal Expansion (10-6/per °F) | 1.8 |
| Specific Gravity | Resin: 1.60 Hardener: 1.20 |
| Volatile Organic Compounds (VOC) | 0 grams/liter |
| Weight per unit | 2.2 lbs |
| Compressive Strength ASTM D695 | 14350 psi |
| Flexural Strength ASTM D790 | 8490 psi |
| Hardness ASTM D785 | 90 |

CURE TIME (68°F):

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|-----------------------------|-------------|
| Working Time | 40 minutes |
| Re-coat Window | 1-1 ½ hours |
| Touch Dry | 12 hours |
| Immersion (Aqueous) Service | 30 hours |
| Full or Chemical Service | 7 days |

“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:

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|--------------------|---------------|
| Dry Service | 450°F (232°C) |
| Spill/Splash | 360°F (182°C) |
| Immersion Service* | 300°F (149°C) |

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

CHEMICAL RESISTANCE:

- Ammonium Hydroxide
- Aromatic & Aliphatic Solvents
- Benzene
- Black Liquor
- Butyl Acetate
- Butyl Carbitol
- Chlorinated Solvents (except Methylene Chloride)
- Chlorides
- Hydrochloric Acid (up to 35%)
- Hydrogen Sulfide
- MEK

- Mineral Acids
- Nitric Acid (up to 30%)
- Organic Acids (many)
- Phosphates
- Phosphoric Acid
- Potassium Hydroxide
- Sodium Hydroxide
- Sulfides
- Sulfuric Acid (up to 95%)
- Toluene
- Urea Solutions
- White Liquor

ORDERING INFORMATION:

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

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