

MIPROGLASS 101 E(HYB) GLASS FLAKE REINFORCED NOVOLAC EPOXY COATING/LINING



CHEMIPROTECT ENGINEERS ABRASION & CORROSION ENGINEERS

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PRODUCT DESCRIPTION

MIPROGLASS 101 E (HYB) is a 100% solids, glass flake filled Novolac epoxy coating for steel and concrete surface coating. It can be applied at thickness ranging from 300 microns to 1500 microns one or multiple coats. MIPROGLASS 101 E (HYB) is also suitable for coating structural steel and concrete in corrosive fume or vapor environments. MIPROGLASS 101 E (HYB) has excellent resistance to splash & spills of many corrosive chemicals. MIPROGLASS 101 E (HYB) is a two-component product. It can be applied by air less spray, brush, roller, or trowel. MIPROGLASS 101 E (HYB) offers excellent resistance to acids, alkalis and chemicals including strong mineral acids, concentrated caustics, fuels, oils, salts and many solvents. MIPROGLASS 101 E (HYB) offers high impact & resistance, resistance to cracking, excellent bond strength to steel & concrete surface with surface tolerance.

GENERAL USES

MIPROGLASS 101 E(HYB) is suitable for a variety of coating & lining applications like; chimneys, stacks and duct, tanks. Acid Storage Tanks (interior and exterior) Chemical Storage Tanks, Fuel and Oil Storage Tanks. **Excellent abrasion & chemical resistance for pump & valve coating.**

PRACTICAL COVERATE

COMPONENT	APPROX. QUANTITY REQUIRED PER SQURE METER
MIPROGLASS-EP 2K Solvent free Epoxy Primer	Steel Surface: 0.200 Kg Concrete Surface 0.300 Kg
MIPROGLASS 101 E(HYB) Glass Flake Reinforced Coating/Lining	0.750 Kgs (two or more coats @ 500 micron thickness)
Cleaner	As Required

TECHNICAL SPECIFICATION

Compressive Strength	45 N/mm ²
Tensile Strength	12 N/mm ²
Flexural Strength	20 N/mm ²
Abrasion Resistance – Taber (CS-17 Wheel)	0.25 gm/1000gm.loading / 1000 rpm
Bond Strength	100 % concrete failure
Temperature Resistance	85° TO 110°C (Dry)
Hardness (Shore D)	75
Solid Content (mixed)	95 to 100%
No. of Coats Recommended	2 or multiple coats as per required thickness
Mixing Ratio	5:1 by weight of Part A to Part B or as mention on pack
Pot Life	45 minutes @ . 25°C
Packaging	6 Kgs & 30 Kgs

PACKAGING & STORAGE

MIPROGLASS 101 E (HYB) is available in 6 Kgs & 30 Kgs packing sizes, which contain premeasured Part A and Part B components. Keep MIPROGLASS 101 E (HYB) tightly sealed in original containers until ready for use. Store at 25° away from direct sunlight. Properly stored, MIPROGLASS 101 E (HYB) products have a minimum shelf life of one year.

APPLICATION GUIDELINES ENVIRONMENTAL CONDITIONS

Weather conditions, especially dew point, should be constantly monitored during the work being done. Final blast cleaning and application of tank lining system must only be performed when the temperature of the steel substrate will not fall within 5°F of the dew point. Dehumidification and/or temperature control may be necessary to meet this requirement. Use a surface thermometer to frequently monitor the temperature of the steel substrate before and during application.

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COLOURS

The standard colors available are red, green, gray, and off white; other colors are available to special order.

SURFACE PREPARATION

Immediately prior to application of the product: The steel substrate must be clean of all oil, grease, dirt, dust, mill scale, rust, flash rust, corrosion product, salts, solvents, chlorides, other chemicals, and existing coatings. All welds must be smooth and continuous. All weld splatter, buckshot, laminations, and slivers must be removed and ground smooth; undercuts and pinholes must be ground smooth and filled with weld metal. All projections, high points, sharp edges, and fillets must be ground smooth to a radius of at least 1/8 inch and all corners must be rounded. All pitting, scratches, gouges, and other defects must be repaired either by welding or by filling with epoxy putty repair materials that are compatible with MIPROGLASS 101 E (HYB) and suitable for the intended service conditions. All surfaces to be coated or lined must be readily accessible. For tank linings, the steel must be blasted to a White Metal Finish (NACE No. 1, SSPC SP 5) with a 2 to 4 mil dense, sharp anchor profile. For exterior coatings, the steel must be blasted to a Near White Metal Finish (NACE No.2, SSPC SP 10) with a 2 to 3 mil dense, sharp anchor profile.

MIXING & APPLICATION

Individually stir Part A and Part B components to a smooth, uniform consistency and color. Any settling in the containers must be thoroughly scraped up and remixed prior to mixing or application.

Apply the MIPROGLASS 101 E (HYB) at the specified mil thickness and allow curing.

Note: Post curing may be desirable in certain circumstances.

TOUCH UP OR RE-COATING

Before any touch-up or re-coat material can be applied, the first coat must be properly prepared for maximum inter coat adhesion.

- 1) The first coat must be cured firm to the touch, clean, dry and free of blush or surface contaminants.
- 2) If the lining materials to be recoated has cured beyond 24-hours or has been in direct sunlight for more than 12 hours, the surface must be cleaned and abraded to remove gloss prior to application of the recoat material.

CLEAN UP

The following tips will be helpful in cleaning hand tools and equipment after use: Before MIPROGLASS 101 E (HYB) gels; it can be cleaned from hand tools and equipment using hot, soapy water. Spray equipment should be cleaned and flushed with solvents before coating material begins to gel. Follow equipment manufacturer's recommendations for proper cleaning and care instructions. After MIPROGLASS 101 E (HYB) gels, solvents will be required for cleaning. Chlorinated solvents may be used if flammable solvents are prohibited.

CAUTION

MIPROGLASS 101 E (HYB) may cause skin irritation with prolonged or repeated contact. Handle with care and read the material safety data sheet, which is available for each product.

WARRANTY

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. Our material data sheets and other literature are to be considered accurate and reliable, but are used as guides only. WE GIVE NO WARRANTY OR GUARANTEE, WHETHER OF MERCHANTABILITY OR FITNESS OF PURPOSE OR OTHERWISE, AND WE ASSUME NO LIABILITY IN CONNECTION THEREWITH. We are happy to give suggestions for applications; however, the user assumes all risks and liabilities in connection therewith regardless of any suggestion, we may give. We assume no liability for consequential or incidental damages. Our liability, in law and equity, shall be expressly limited to the replacement of nonconforming goods at our factory, or at our sole option, to repayment of the purchase price of the non-conforming goods.