

# MIPROGLASS 201 E(HYB) TROWELABLE GLASS FLAKE REINFORCED NOVOLAC EPOXY LINING



## CHEMIPROTECT ENGINEERS ABRASION & CORROSION ENGINEERS

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### PRODUCT DESCRIPTION

MIPROGLASS 201 E(HYB) is a 100% solids, trowel applied, high performance, high chemical resistant C class glass flake reinforced Novolac epoxy lining system. MIPRO 201 E(HYB) is highly filled with carefully selected large size glass flakes. Our flake glass is chemically treated for maximum adhesion into the resin system, which highly increase permeation resistance and physical properties. MIPRO 201 E(HYB) is specially formulated to resist up to 90% sulfuric acid condition and high alkaline chemical environments. MIPRO 201 E(HYB) will discolor when exposed to concentrated sulfuric acid. This is normal and will not affect its performance. This unique formulation is suitable for service up to 70 °C wet splash and spill environments and up to 120°C in dry gas environments.

### TYPICAL USES

MIPROGLASS 201 E(HYB) provides a tough, durable lining system that protects properly prepared and primed substrates from chemical attack. Typical applications include tank linings, secondary containment areas, FGD tank and duct linings, and structural steel protection. MIPRO 201 E(HYB) can also be used as an impervious inter-liner membrane in acid resistant brick/tile lining systems.

### HANDLING CHARACTERISTICS

MIPRO 201 E(HYB) is applied by trowel in two or more coats of 1mm to build total thickness of 3mm or more.

### TYPICAL PROPERTIES

Solids by Volume	100%
Compressive Strength	50 N/mm <sup>2</sup>
Tensile strength	20 N/mm <sup>2</sup>
Tensile elongation	1-2%
Bond strength to steel	18 N/mm <sup>2</sup>
Bond strength to concrete	cohesive Failure
Flexural strength	40 N/mm <sup>2</sup>
Permeability ( perm-inch) ASTM E-96	0.0002
Taber Abrasion (CS-17, 1000g)	50 (1000 CYCLES)
Hardness (Shore D) 85-90	85-90
Shelf life @ 20°C	12 Months
Mix Ratio (Resin:Hardener) by wt.	4:1 or as mention on packing
Coverage 1mm thick	1.800 kg/M <sup>2</sup>
Pot life @ 25°C	30 to 40 minutes
Tack free @ 25°C	7 HOURS
Final Cure@ 25°C	3 Days
Primer	MIPROGLASS-EP

### PACKAGING & STORAGE

MIPRO 201 E(HYB) is a two component material consisting of Part A (resin) and Part B (hardener). MIPRO 201 E(HYB) is packed in 5 kgs and 25 kgs packing sizes. Proper storage of these materials is critical to handling characteristics and performance. Store all components in unopened containers in a dry place, at 20°C, out of direct sunlight. Keep away from heat and flame. This product has a shelf life of 12 months when properly stored.

### SURFACE PREPARATION

Steel: steel surfaces intended for lining application must be clean and free of oil, grease, dirt, rust, mill scale, salts, other coatings, corrosion products and other deleterious substances. Welds and weld splatter must be ground smooth. Avoid skip welds. Grind all sharp projections and round all corners. All steel to be lined must be abrasive blasted to white metal finish with sharp anchor profile. All pitting, scratches, gouges, and other defects must be repaired either by welding or by filling with CHEMIPROTECT ENGINEERS'S epoxy putty. Mask all areas that are not to be lined.

Concrete: Ideally, new concrete must cure a minimum of 28 days. Concrete surface to be primed with MIPROGLASS-EP epoxy primer before application of MIPROGLASS 201 E(HYB)

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Concrete surfaces should be abrasive blasted to provide a sound surface with a texture similar to medium grit sandpaper. Surfaces must be dry. All voids, pits, rock pockets and honeycombed surfaces should be filled with CHEMIPROTECT ENGINEERS'S epoxy putty prior to application.

### **PRIMING/SURFACE REPAIR**

Mix and apply MIPROGLASS-EP epoxy primer approx. 150 micron thickness. Allow primer to cure tack free before application of MIPRO 201 E(HYB). Apply sufficient amount of primer to seal the surface of the concrete without creating puddles. This may require more than one coat of primer depending on the porosity of the concrete. If more than one coat is necessary, allow each coat to cure tack free before applying the next coat.

### **MIXING AND APPLICATION**

Stir Part A to a smooth, uniform consistency and color using a Jiffy type mixer.

For mix an entire unit of MIPROGLASS 201 E(HYB) Pour Hardener (Part B) into pail of Resin (Part A) and mix thoroughly for 2-3 minutes. Be sure to scrape the sides and bottom of the mixing pail to ensure thorough mixing. Pot life of the mixture will be approximately 25-30 minutes at 20 °C (significantly less at HIGHER temperatures). The longer the material is in the pail after mixing, the shorter the pot-life will be.

**HOW TO USE.** • Apply 1MM base coat using a trowel. Before the basecoat cures, slightly dampen a short nap roller with toluene or xylene and back roll the surface of the fresh coating (one or two passes) to orient the glass flakes parallel to the substrate. Allow to cure tack free before applying the topcoat. • Before applying the topcoat, closely inspect the basecoat to ensure that there are no soft, uncured spots. If there are uncured spots, remove by scrapping and solvent wiping and reapply the MIPRO 201 E(HYB) to the area to be repaired. Sand or grind down any sharp protrusions. • Mix topcoat material just as the basecoat. Apply brush or trowel. Spread to an even, uniform finish.

**CLEANUP** Clean tools and equipment with nonflammable chlorinated solvents before material begins to set.

### **SAFETY PRECAUTIONS**

The various components of MIPRO 201 E(HYB) products present health and safety hazards if they are handled improperly. Keep all containers closed when not in use. Always wear safety glasses, proper respirator, and protective clothing and rubber gloves while mixing or applying these products.

**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 MERCHANT ABILITY 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 non-conforming goods at our factory, or at our sole option, to repayment of the purchase price of the non-conforming goods.