

MF2653, MF2673, MF2683

100% SOLIDS EPOXY

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION:

Two part 100% solids epoxy coating. To be applied on floors requiring colour and resistance.

RECOMMENDED FOR:

MF26XX Epoxy is designed as a finishing coat or basecoat on cement or concrete.

SOLIDS BY WEIGHT:

100% (+/- 1%)

STANDARD COLORS:

MF2653 Light Grey, **MF2673** Medium Grey, **MF2673** Dark Grey

RECOMMENDED FILM THICKNESS:

5-8 mils

COVERAGE:

200-300 sq. ft. / 3.78 L (1 US gal.) @ 5-8 mils.

PACKAGING INFORMATION

3 gallon kit and 15 gallon kits. All kits contain two (2) Part A resin and one (1) part B activator.

MIX RATIO:

Resin: 2 parts A / Hardener: 1-part B

SHELF LIFE:

1 year in unopened containers

ABRASION RESISTANCE:

Taber abraser CS-17 calibre wheel with 1000-gram total load and 1000 cycles = 50 mg loss

FLEXURAL STRENGTH:

5,500 psi @ ASTM D638

COMPRESSIVE STRENGTH:

10 500 psi @ ASTM D695

ADHESION:

>300 PSI @ ASTM D-4541 (rupture du béton)

VISCOSITY:

Resin: 3000-4000 / Hardener: 900-1100

TENSILE STRENGTH:

6 500 psi @ ASTM D638

HARDNESS:

Shore D = 78-80

TDG CLASSIFICATIONS:

Part A "not regulated"

Part B "LIMITED QUANTITIES"

APPLICATION TEMPERATURE:

15-21 °C with relative humidity below 85%

DRYING TIME: (21°C / 70°F @50% RELATIVE HUMIDITY)

Pot life – 1.5 gallons.....25-30 minutes

Recoat or topcoat..... 8-12 hours

Light foot traffic... 8-12 hours

Full cure (heavy traffic) 2 days

PRIMER:

Recommended: **MF015**

TOPCOAT:

Optional – Many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, colour stability, or UV stability, topcoat with a suitable aliphatic urethane

LIMITATIONS:

- Colour stability or gloss may be affected by environmental conditions such as high humidity, low temperatures, chemical exposure or exposure to certain types of lighting such as sodium vapor lights.
- Colours may vary from batch to batch. Therefore, always use product from the same batch for an entire job.
- Substrate must be clean, sound and dry.
- Substrate temperature must be 3°C (5.5°F) above measured dew point.
- Moisture content of the substrate must be 4% or less when coating is applied.
- Do not apply to porous surfaces where moisture transmission can occur during application of the coating.
- Do not use on exterior substrates.
- Do not apply in areas where the ambient humidity is greater than 85%.
- Freshly applied product must be protected against moisture, condensation and water for at least 24 hours.
- All new concrete must be cured for at least 30 days prior to application.

MIXING AND APPLICATION INSTRUCTIONS

- 1) **PRODUCT STORAGE:** The product must be stored dry between 15°C and 21°C. Do not store near open flame. The shelf life of part A and part B is 12 months. Once the part A is mixed with Part B, the pot life is 25-30 minutes.
- 2) **SURFACE PREPARATION:** Remove dust, dirt, grease, oil and all other contaminants with 3599 cleaner / degreaser. Prepare the surface mechanically as per ICRI-CSP2 diamond grinding to ensure removal of laitance, curing agents and sealers. The compressive strength of the concrete substrate must be at least 25 MPA (3635 psi) after 28 days and at least 1.5 MPA (218 psi) tensile strength. Be careful with condensation (within 10 degrees of the dew point). All cracks, holes and irregularities must be repaired prior to applying the coating.
- 3) **RECOMMENDED PRIMER:** The recommended primer for this product is the **MF015**.
- 4) **PRODUCT MIXING:**
This product comes pre-packaged by weight. Kits should be mixed in their entirety. Pre-mix each component separately for 2-3 minutes each. Then combine the two components, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. This product is an emulsion product and should be mixed well before using. If partial kits are to be used, refer to the front of this technical data sheet for proper weight mix ratios.
- 5) **PRODUCT APPLICATION:** The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable notched squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release spike roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.
- 6) **RECOAT OR TOPCOATING:**
If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be deglossed to insure a trouble free bond prior to application of recoats or topcoats. Colder temperatures will require more cure time for the product before recoating or top coating can commence. Before recoating or top coating, check for epoxy blushes (a whitish, greasy film or deglossing). If a blush is present, it can be removed by any standard detergent cleaner prior to top coating or recoating. Many epoxy coatings and urethanes as well as multiple coats of this product are compatible for use as a topcoat.
- 7) **CLEANUP:** Use xylene
- 8) **FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product.
- 9) **RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured. It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.
- 10) **CAUTION:** Exposure during the curing stage of the coating to the byproducts of propane combustion may cause discoloration to occur. During application and curing, propane fueled fork-lifts and other vehicles or propane fueled heaters should not be used in the area until the coating is fully cured, At least 72 hours

Before using any product, be sure the Safety Data Sheet is read and understood.

Please contact your MF Paints Inc. representative at 1-800-363-8034 for further information.

WARRANTY

This product will give full satisfaction if applied according to the manufacturer's instructions. Manufacturer's liability is limited to the replacement of the product and does not include manpower if found to be defective upon inspection.

Contact your municipality to dispose of the container and any surplus in a safe and ecological manner.