

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION:

MF2600 Epoxy is a 100% solid, clear coating. It can be used as a stand-alone clear coating on concrete, over an existing epoxy coating or as a binder for metallic decorative floor system. It consists of two parts resin, one-part hardener. The pigment package is a high effect pigment which causes a drifting evolving dynamic in the coating, resulting in a metallic natural stone or cloud look. The product produces a 3-dimensional reflecting effect. The effect can be adjusted to give an extraordinary artistic floor. This system provides a high gloss finish and is as durable as decorative.

RECOMMENDED FOR:

- Food Industry
- Pharmaceutical
- Industrial
- Automotive
- Institutional
- Commercial
- Hospitals
- Residential
- Aeronautics
- Showrooms, shops, dealers
- Bars, Banquet halls
- Hotels, kitchens & restaurants
- Shopping centers, retail stores, department stores
- Spas, sunrooms, living rooms
- Casinos
- Airports, railway station

SOLIDS BY WEIGHT:

100% (+/- 1%)

STANDARD COLOURS:

Clear

METALLIC PIGMENTS:

White, Steel Grey, Charcoal, Red, Copper, Bronze, Chocolate and Blue.

250 ml. COLOUR PACKS:

Dark Grey, Azur, Pine Green, Desert Tan, Tile Red, Black, Safety Deep Blue, Safety Lime Green, Safety Yellow.

RECOMMENDED FILM THICKNESS:

CLEAR: 5-8 mils METALLIC: 32 mils

COVERAGE:

CLEAR: Coat N°1: 200-300 sq. ft. / 3.78 L (1 US gal.) @ 5-8 mils.
Coat N°2: 133-200 sq. ft. / 3.78 L (1 US gal.) @ 8-12 mils.
METALLIC: 50 sq. ft. / 3.78 L (1 US gal.) @ 32 mils.

PACKAGING:

3 gallon kit and 15 gallon kits

MIX RATIO:

Resin: 2 parts A / Hardener: 1 part B
Metallic pigments: 4 ounces / 1.5 gallon kit

SHELF LIFE:

1 year in unopened containers

ABRASION RESISTANCE:

Taber abraser CS-17 calibrase 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 D4541 (concrete failure)

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 QUANTITY"

APPLICATION TEMPERATURE:

15°C – 21°C with relative humidity below 85%

DRYING TIMES: (21°C / 70°F @ 50% relative humidity)

Pot life – 1 ½.....25-30 minutes
Recoat or topcoat..... 8-12 hours
Light foot traffic... 12-24 hours
Full cure (heavy traffic) 7 days

PRIMER:

MF2663 base coat black

TOPCOAT:

When used in a metallic version an optional clear coat of **MF2600** can be applied, in order to obtain a multidimensional effect.

LIMITATIONS:

- Must only be applied on:
 - The Metallic **MF2600** system
 - Full broadcast decorative chip flakes
 - Full broadcast coloured quartz aggregate
 - This product is not compatible with any other coating
- Substrate must be clean, sound and dry.
- Substrate temperature must be 3°C (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.

MIXING AND APPLICATION INSTRUCTIONS

1) **PRODUCT STORAGE: MF2600** 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) **PRODUCT MIXING:**

Clear version

Pre-mix each component separately for 2-3 minutes each. Pour 2 parts of component A into a recipient, then add 1 part of component B (mixing ratio 2:1). Mix the components for at least 2-3 minutes using a low-speed drill (300-450 rpm) in order to reduce air entrapment and to obtain a homogeneous mixture.

Metallic version

Pre-mix each component separately for 2-3 minutes each. Pour 2 parts of component A into a recipient, then add 1 part of component B (mixing ratio 2:1). Mix the components for at least 2-3 minutes using a low-speed drill (300-450 rpm) in order to reduce air entrapment and to obtain a homogeneous mixture. Add 2 ounces of metallic pigments per 5.67 L kit (1.5 US gal.) and mix during approximately 1 minute using a low-speed drill (150-200 rpm).

4) **PRODUCT APPLICATION:**

Clear version

MF2600 is applied at 5-8 mils. with a flat squeegee and back rolled with a 10mm nap roller to obtain a uniform finish.

Metallic version

MF2600 metallic version is applied in 2 steps followed by an optional third coat.

1. Apply one coat of **MF2663** base coat black (see technical data sheet). The coat of **MF2663** must be dry to touch (8-12 hours) before applying the **MF2600** metallic. Do not exceed 24 hours between coats.
2. Apply **MF2600** metallic using a flat or notched squeegee. Apply to a thickness of 32 mils, which will provide 75 square feet per 1.5 gallons.
3. Before the surface dries, denatured alcohol could be sprayed on if a very artistic look is desired.
4. An optional clear coat of **MF2600** can be applied, in order to obtain a multidimensional effect. Apply at 5-8 mils. with a flat squeegee and back roll with a 10mm nap roller for a uniform finish.

5) **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. If recoating with a product other than **MF2600** clear, a test patch is recommended to ensure compatibility.

6) **CLEANUP:** Clean all tools and equipment with a Cleaner/Epoxy thinner. Wash soiled hands and skin thoroughly with hot soapy water. Once cured the product can only be removed mechanically.

7) **FLOOR CLEANING:** Caution! Some cleaners may affect the colour 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.

8) **RESTRICTIONS:** Restrict the use of the floor to light traffic and mild 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.

9) **CAUTION:** Exposure during the curing stage of the coating to the by-products 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.