TECHNICAL DATE SHEET

REVÊTEMENTS MF PERFORMANCE COATINGS

MF 1600

Moisture Vapor Barrier
Epoxy 100% solids

DESCRIPTION

MF1600 is a clear 2-component 100% solids epoxy coating. MF1600 is designed to control water vapor emissions.
This coating is recommended for application as a first coat in conditions of moisture vapor transmission. Its performance exceeds the requirements for ASTM F3010 when applied in the required thicknesses of 18 mils.

APPLICATIONS

- Residential, commercial
- Institutional and industrial
- Food preparation kitchens
- Pharmaceutical, Hospital installations
- Car dealership
- Shops and Exhibition
- Commercial Bars Restaurant
- Institutional
- Detention centers
- Hotel, restaurants
- Industrial- Aeronautics

ADVANTAGES

- Low odor
- Low VOC (LEED Project)
- Heavy traffic
- Applied at 18 mils. will resist up to 25lbs./24h/1000 sq. ft.

LIMITATIONS

- Must be top coated
- Ambient relative humidity has to be 85% or less.
- Substrate temperature must be 3°C. or 5.5° F. above dew point.
- **Does not replace a waterproofing membrane**
- **Does not protect against hydrostatic pressure**

TECHNICAL INFORMATION

Packaging:
Kit of 3 gallons.
RATIO:
Resin: 2 parts A / Activator: 1 part B
SHELFLIFE:
1 year in sealed container
ABRASION RESISTANCE:
10 mg loss
(CS-171/1000 cycles/1000 g).
Flexural Strength:
5500 psi, ASTM D638
ADHESION:
>300 psi @ ASTM D4541 (Concrete failure)
COMPRESSIVE STRENGTH:
10 500 psi, ASTM D695
TENSILE STRENGTH:
6 500 psi @ ASTM D638
VISCOSITY:
Resin: 1200-1400 cps/ Activator: 200-300 cps
Mix :700-900 cps
VOC < 100g/l
HARDNESS:
Shore D = 85-90

CHARACTERISTICS

SOLIDS IN WEIGHT: 100% (+/- 1%)
COLOUR: Clear
THIKNESS BY COAT
Vapor permeance: @ 18 mils THIKNESS = 0.1 US perm. ASTM E96
MVER/RH @ 18 mils thickness: 25 lbs/24 h./1000 sq. ft., ASTM F1869
COVERAGE PER GALLON:
85-90 sq. ft./ 3.78 L (1 US gal.) @ 18 mils. Coverage may vary depending on concrete texture from surface preparation.
APPLICATION TEMPERATURE
15°C – 21°C with HR below 85%
DRY TIME:
(21°C / 70°F @ 50% HR)
Pot Life .....30-45 minutes
Tack Free..... 8-12 hours
Light traffic..... 12-24 hours
Full Cure .....7 days
LOWER OR HIGHER TEMPERATURES and or RH WILL INFLUENCE DRYING / CURING TIME.

INSTRUCTIONS

STORAGE:
MF1600 should be stored in dry place, at a temperature between 15 ° C and 21 ° C. Do not store near open flames. The shelf life of parts A and B is 12 months. The mixed Part A and Part B, 30-45 minutes pot life.

PRODUCT MIXING
Pre-mix each component separately for 2-3 minutes. Pour the 2 parts of component A into a container, 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) to avoid air entrapment and to obtain a homogeneous mixture.

SURFACE PREPARATION

Remove dust, dirt, grease by shot blasting (BLASTRAC) or any other approved method in order to obtain an ICRI-CSP 3-4 profile. Remove laitance, curing agents and sealant.

The compressive strength of concrete should be at least 25 MPA (3635 PSI) after 28 days. The tensile strength should be at least 1.5 MPA (218 PSI). All cracks, holes and irregularities should be repaired prior to coating application with appropriate epoxy repair compound.

RECOMMENDED PRIMERS

This product does not require any concrete primer or sealer. The MF1600 being a primer and a base coat at the same time must be applied directly to the concrete and must be covered with an epoxy or polyaspartic system.

REVÊTEMENTS MF PERFORMANCE COATINGS

MF 1600

Moisture Vapor Barrier
Epoxy 100% solids

APPLICATION

When applied directly to concrete at a thickness of 18 mils, it exceeds the requirements of ASTM F3010 for vapor permeance. This coating will withstand water vapor emission rates of up to 25 lbs / 24h / 1000 sq.. Verify with ASTM F-1869 Anhydride Test prior to installation.

Apply MF1600 at 18 mils in one coat. Spread using a rubber squeegee then level with a roller to obtain a uniform finish

PRECAUTIONS TO USE

May be good for light traffic after 12 hrs. until the coating is fully cured. It is highly recommended to keep the floor dry until the full 72 hr. full cure period. According to the system applied, the surface may be slippery if it is wet or contaminated; keep the surface clean and dry. **Lower temperatures will prolong curing.**

CLEAN UP

Clean all tools and equipment with an epoxy cleaner / thinner. Wash hands and skin with soap and warm water. Once cured, the product can only be removed mechanically.

DISPOSAL

Allow the 2A + B mixture to FULLY harden and dry well before disposing.

Contact your municipality to dispose of containers in an ecological way.

WARRANTY

This product will give complete satisfaction if applied according to the manufacturer's instructions. In the event that it is found to be defective after inspection, the manufacturer's liability is limited to the replacement of the product and does not include labor during the application

CAUTION

Exposure during the curing period of the coating to by-products from propane combustion may cause discoloration. During application and curing period, propane forklifts and other propane vehicles or heaters should not be used in the area until the coating is fully cured, at least 72 hours.

Before using any product, make sure the Material Safety Data Sheet is read and understood.
Please contact your MF Paints Inc. representative at 1-800-363-8034 for more information