

**TECHNICAL DATA SHEET**

**COVE BASE AND REPAIR MORTAR**

**PRODUCT DESCRIPTION:**

**MF1** is a three component 100% solids epoxy mortar designed for cove base surface applications. This product has specially selected aggregate and ingredients to provide easy construction of cove bases with the use of a marginal trowel or other cove base application tools.

**RECOMMENDED FOR:**

**MF1** is recommended for any type of cove base applications.

**NOT RECOMMENDED FOR:**

Immersion applications for all acids and chemicals.

**SOLIDS BY WEIGHT:**

100%

**VOLATILE ORGANIC COMPOUND:**

Less than 1 g/l

**STANDARD COLOURS:**

Light grey – Dark grey – Red

**RECOMMENDED THICKNESS:**

As needed to form the cove base with a 3mm (1/8”) minimum

**COVERAGE PER GALLON:**

Depends on style or type of cove base applied

**PACKAGING**

½ unit

1 unit

\*UNIT= 4.25lbs part A, 1.9lbs part B, 26.5lbs aggregate.

(weights are approximate)

**MIX RATIO:**

\*UNIT= 0.45 gallons part A to 0.23 gallons part B plus 26.5 lbs aggregate (weights and volumes are approximate)

**SHELF LIFE:**

1 year in unopened containers

**FLEXURAL STRENGTH:**

15,000 psi @ ASTM D790

**COMPRESSIVE STRENGTH:**

14,575 psi @ ASTM D695

**TENSILE STRENGTH:**

9,200 psi @ ASTM D638

**ULTIMATE ELONGATION:**

3.1%

**IMPACT RESISTANCE:**

Excellent

**ABRASION RESISTANCE:**

Excellent

**HEAT DEFLECTION TEMPERATURE:**

62.25 degrees C @ ASTM D648

**WEATHERING:**

Good (chalks)

**VISCOSITY:**

Part A= 2,200-2,700 cps, Part B= 200-300 cps

**TDG CLASSIFICATIONS:**

Part A&C “not regulated”

Part B “LIMITED QUANTITY”

**DRYING TIMES: (21°C / 70°F) @ 50% RH**

Pot life – .25 cu.ft. mix..... 25-35 minutes

Recoat or topcoat.....6-10 hours

Light foot traffic... 8-10 hours

Full cure (heavy traffic) ..... 2-7 days

**APPLICATION TEMPERATURE:**

10°C – 32°C (50°F – 90°F)

**CHEMICAL RESISTANCE:**

<u>REAGENT</u>	<u>RATING</u>
Xylene	C
1,1,1 trichloroethane	B
MEK	A
Methanol	A
Ethyl alcohol	C
Skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	E
10% sulfuric acid	C
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	B

**Rating key:** A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion.

**NOTE: Extensive chemical resistance information is available through your sales representative.**

**PRIMER:**

Not required.

**TOPCOAT:**

All Performance Coatings

**LIMITATIONS:**

- Colour stability may be affected by environmental conditions such as high humidity or chemical exposure as well as UV exposure.
- Colours may vary from batch to batch due to variations in the silica filler.
- Mortar colours are not from our standard colour chart.
- Substrate temperature must be 3°C/5°F above dew point.
- For chemical exposure areas, we recommend a suitable topcoat to reduce porosity and chemical migration.
- All new concrete must be cured for at least 30 days prior to application.
- Test data based on neat resin.

## MIXING AND APPLICATION INSTRUCTIONS

- 1) **PRODUCT STORAGE:** Store product at normal room temperature before using. Continuous storage should remain above 13°C/55°F to prevent product crystallization.
- 2) **SURFACE PREPARATION:** All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble-free bond to the substrate. We recommend that an aggressive shot blast or diamond grind be performed prior to the application of this product. A less adequate method would be acid etching, but the etch should properly profile the substrate. All edges and around columns or beams should be mechanically scarified. All termination points should not be feather edged, but should be saw cut with the termination ending at the sawcut or blended into an applied epoxy floor overlay. All large cracks should be V cut and filled with appropriate crack filler. All expansion joints should be filled with appropriate joint filler. When overlaying an expansion joint, a single saw cut through the epoxy overlay will prevent random fracturing. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.
- 3) **PRIMING:** No primer is necessary. This material is self-priming. However, any suitable primer can be used. In some applications, primers can be used to aid in application.
- 4) **PRODUCT MIXING:** It is important that the liquids be mixed together first. Mix the liquids thoroughly in an oversized container until streak free. After the liquids are thoroughly mixed, add in the aggregate. Mix in the aggregate with slow speed mixing equipment such as a jiffy mixer or rotating bucket/stationary mixing blade assembly. It is equally important that enough time is spent mixing in the aggregate to ensure that the aggregate is thoroughly wetted out. No induction time is necessary. Improper mixing may result in product failure.
- 5) **PRODUCT APPLICATION:** Apply the mixed material using a marginal trowel, cove base trowel or any other suitable application equipment at a minimum 3mm (1/8") thickness. Do not over trowel the material as this may cause isolated blisters to form. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process.
- 6) **RECOAT OR TOP COATING:** No recoating or top coating is necessary. However, if you opt to topcoat the applied mortar, allow it to cure before top coating. Many epoxies and urethanes can be used. Contact your sales representative for suitable topcoat selections.
- 7) **CLEANUP:** Use xylene
- 8) **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.
- 9) **RESTRICTIONS:** Restrict the use of the floor to light traffic and mild chemicals until the coating is fully cured (see technical data under full cure). 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 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.**