

## TECHNICAL DATA SHEET

## CHEMICAL RESISTANT NOVOLAC EPOXY PRIMER

### PRODUCT DESCRIPTION:

**MF257** is a two component Novolac epoxy primer in colours. **MF257** offers high solids, good substrate penetration and low odor. This primer reduces air release generation from the substrate when applying higher solids Novolac topcoats. This will result in fewer surface imperfections in high build and self-leveling type coating.

### RECOMMENDED FOR:

**MF257** is recommended for priming concrete and cement substrates prior to applying other Novolac topcoats. This product can withstand exposure to many chemicals.

### SOLIDS BY WEIGHT:

Mixed= 85% (+/- 2%)

### SOLIDS BY VOLUME:

Mixed= 80% (+/- 2%)

### VOLATILE ORGANIC COMPOUNDS:

Part A= 1.7 pounds per gallon  
Part B= 1.25 pounds per gallon

### STANDARD COLOURS:

Light grey, medium grey, and tile red

### RECOMMENDED FILM THICKNESS:

5-6 mils per coat wet thickness (yields 4-5 mils dry)

### COVERAGE PER GALLON:

267 to 320 square feet/ gallon @ 5-6 mils wet thickness

### PACKAGING:

3 gallons kits= 2 gallons part A (9.95 lbs/gal) and 1 gallon part B (8.3 lbs/gal)

### MIX RATIO:

9.95 lbs part A (1 gallon) to 4.15 lbs (½ gallon) part B (volumes are approximate)

### SHELF LIFE:

1 year in unopened containers

### FINISH CHARACTERISTICS:

Satin gloss (>20 at 60 degrees @ Erichsen glossmeter)

### FLEXIBILITY:

No cracks on a 3mm mandrel

### IMPACT RESISTANCE:

Gardner Impact, direct= 50 in. lb. (passed)

### ABRASION RESISTANCE:

Taber abrasor CS-17 calibrase wheel with 1000-gram total load and 500 cycles= 26.1 mg loss

### ADHESION:

375 psi @ elcometer (concrete failure, no delamination)

### VISCOSITY:

Mixed= 250-500 cps (typical)

### TDG CLASSIFICATIONS:

Part A "FLAMMABLE LIQUID N.O.S., 3, UN1993 PGIII"  
Part B "FLAMMABLE LIQUID N.O.S., 3, UN1993 PGIII"

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

Pot life – 1 ½ gal..... 1-3 hours  
Tack free (dry to touch) ..... 4-7 hours  
Recoat or topcoat..... 7-10 hours  
Light foot traffic... 12-24 hours  
Full cure (heavy traffic) ..... 2-7 days

### APPLICATION TEMPERATURE:

15°C – 32°C (60°F – 90°F) with relative humidity below 90%

### CHEMICAL RESISTANCE:

REAGENT		RATING
Acetic acid	5%	D
Xylene		D
Toluene		D
1,1,1 trichloroethane		C
Mek		C
Methyl alcohol		C
Gasoline		D
10% sodium hydroxide		E
50% sodium hydroxide		E
10% sulfuric acid		E
10% hydrochloric acid		E
20% nitric acid		C
Ethylene glycol		E

**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:

Many Novolac products are suitable such as our **MF253**

### LIMITATIONS:

- Colours may be affected by high humidity, low temperatures or chemical exposure.
- For best results use a 10mm nap roller.
- Slab on grade requires moisture barrier.
- Substrate temperature must be 3°C/5°F above dew point.
- All new concrete must be cured for at least 30 days.
- Physical properties are typical values and not specifications.
- This product should be top coated with a suitable Novolac epoxy topcoat.
- Colours may vary from batch to batch.

### MIXING AND APPLICATION INSTRUCTIONS

- 1) **PRODUCT STORAGE:** Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should remain between 15°C – 32°C (60°F – 90°F).
- 2) **SURFACE PREPARATION:** Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate 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:** None required
- 4) **PRODUCT MIXING:** 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.
- 5) **PRODUCT APPLICATION:** The mixed material can be applied by brush or roller. Maintain temperatures and humidity within the recommended ranges during the application and curing process. Improper mixing or applying the product too thick can result in product failure.
- 6) **RECOAT OR TOP COATING:** This product is a primer; we recommend a topcoat. When you recoat or topcoat this product, you must first be sure that all of the solvents have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or top coating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require a longer cure time of the product before recoating or top coating can commence. Before recoating or top coating, verify the coating to insure no epoxy blushes were developed (a whitish, greasy film, or deglossing.) If a blush is present, it can be removed with any standard type detergent cleaner prior to top coating or recoating. The primary choice of topcoat will be other Novolac epoxy coatings. Multiple coats of this product are suitable prior to top coating.
- 7) **CLEANUP:** Use xylene
- 8) **FLOOR CLEANING:** Caution! Some cleaners may affect the colour. Test each cleaner in a small area. 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. It is best to let the floor remain dry for the full cure cycle.
- 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.***