

PEINTURES

MF7070P

TECHNICAL DATA SHEET

100% SOLIDS EPOXY COATING ORANGE PEEL FINISH

PRODUCT DESCRIPTION:

MF707OP is a two components 100% (+/- 1%) solids epoxy coloured coating designed for applications where a medium build coloured impact resistant floor is required. It helps to hide visible imperfections on existing floors.

RECOMMENDED FOR:

MF707OP is recommended when an orange peel finish on concrete or masonry is desired. Product is suitable in many chemical exposure environments.

SOLIDS BY WEIGHT:

100% (+/- 1%)

SOLIDS BY VOLUME:

100% (+/- 1%)

VOLATILE ORGANIC COMPOUND:

Less than 2 g/L

STANDARD COLOURS:

White - Off white - Light grey - Medium grey - Tile red - Beige -Medium brown – Blue – Light blue – Green

SAFETY COLOURS:

Safety yellow - Safety red

RECOMMENDED FILM THICKNESS:

6-10 mils

COVERAGE PER GALLON:

160-260 square feet per gallon @ 6-10 mils

PACKAGING:

3 gallon kits (2.9 – 3.0 gallons' net, approximately)

MIX RATIO:

12 lbs (1 gallon, approximately) part A to 4.25 lbs (0.50 gallons, approximately) part B (standard colours)

SHELF LIFE:

1 year in unopened containers

FINISH CHARACTERISTICS:

Gloss (60-95 at 60 degrees @ glossmeter)

ABRASION RESISTANCE:

Taber abraser CS-17 calibrase wheel with 1000-gram total load and 500 cycles = 32 mg loss

FLEXURAL STRENGTH:

5,400 psi @ ASTM D790

COMPRESSIVE STRENGTH:

9,100 psi @ ASTM D695 - ½"x ½" bars

ADHESION:

450 psi @ elcometer (concrete failure, no delamination)

Mixed = 1300-2300 cps (typical, most colors)

TDG CLASSIFICATIONS:

Part A "Not regulated"

Part B "LIMITED QUANTITY"

TENSILE STRENGTH:

4,800 psi @ ASTM D638

ULTIMATE ELONGATION:

GARDNER VARIABLE IMPACTOR:

50 in. lb. direct - passed

HARDNESS:

Shore D = 80

APPLICATION TEMPERATURE:

15°C - 32°C (60°F - 90°F) with relative humidity below 85%

DRYING TIMES: (21°C / 70°F) @ 50% RH

Pot life – 1 ½	35-65 minutes
Tack free (dry to touch)	6-8 hours
Recoat or topcoat	9-13 hours
Light foot traffic	12-15 hours
Full cure (heavy traffic)	2-7 days

CHEMICAL RESISTANCE:

<u>REAGENT</u>	<u>rating</u>
Xylene	С
Trichloroethylene	В
Methanol	Α
Ethyl alcohol	В
Skydrol	В
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	Α
10% HC1 (aq)	С
5% acetic acid	В

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

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

PRIMER:

Recommended; MF015 - clear

TOPCOAT:

Optional - MF322 aliphatic urethanes can be used for increased chemical resistance or increased UV stability.

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.
- This product is not UV colour stable and may discolour when exposed to UV lighting. Otherwise, the colour stability of this product is good. Therefore, a topcoat is optional and dependent on the environment.
- Application of a suitable primer of the same colour is recommended to achieve a satisfactory hide.
- Substrate temperature must be 3°C/5°F above dew point.
- All new concrete must be cured for at least 30 days prior to application.
- Apply a suitable primer before using this product as a coating.
- Typical application is with a non-shedding 10mm nap roller.

MF Paints Inc. Tel.: (450)628-3831 / 1 (800) 363-8034 1605 Dagenais blvd. West, Fax.: (450)628-6221 / 1 (800) 399-8619 Quebec, Canada H7L 5A3

www.mfpaint.com

1 | 2 Revised: Feb. 10th 2017





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MIXING AND APPLICATION INSTRUCTIONS

- 1) PRODUCT STORAGE: Store product at normal room temperature. Continuous storage should remain between 15°C 32°C (60°F 90°F). Low temperatures or temperature fluctuations may cause product crystallization.
- 2) SURFACE PREPARATION: The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil 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 begin coating.
- 3) **PRIMING:** A suitable primer such as **MF015** or **MF013 Fast Dry** should be used before applying this product. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.
- 4) PRODUCT MIXING: Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. 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. After mixing, transfer the mixed material to another pail (the transfer pail) and mix again. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.
- 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 TOP COATING:** 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:** Clean tools and equipment with an epoxy cleaner/thinner (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. 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 drv.
- 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.

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