

MF3550CL

POLYASPARTIC COATING SYSTEM

ALIPHATIC

DESCRIPTION

MF3550CL is a two-component, solvent-based, aliphatic polyaspartic system designed to maintain the integrity of concrete surfaces and serve as a primer for a flake system. The clear version is primarily used as a topcoat over vinyl flake, providing excellent appearance. **MF3550CL** exhibits excellent mechanical properties, as well as UV stability and resistance to chemicals and solvents.

APPLICATIONS

- Residential
- Restaurant
- Commercial and Dealership
- Institutional
- Aeronautics

ADVANTAGES

- Low odor
- Aesthetic finish
- Superior mechanical strength
- Good chemical and physical resistance
- Easy-to-clean surface, resistant to bacteria and moisture

LIMITATIONS

- Minimum/maximum substrate temperature: 15°C/30°C (59°F/86°F).
- Maximum relative humidity during application and curing: 85%.
- The substrate moisture content must be < 4% during coating application.
- Protect from moisture, condensation, and contact with water during the initial 24-hour curing period.
- **Do not add thinners or solvents to the mix.**
- **AVOID CONDENSATION. The substrate must be at least 3°C above the dew point.**

TECHNICAL INFORMATION

FORMAT: Kit of 2 gallons.

RATIO:

Resin: 1 parts A / Activator: 1 part B

POT LIFE (100g)25°C : 60-90 minutes

SHELFLIFE: 1 year in sealed container

ABRASION RESISTANCE:

ASTM D4060, Taber Abrader CS-17 Wheel / 1000g (2.2 lbs.) /1000 cycles: Lost de 30 mg

BOND RESISTANCE: ASTM D4541:

500 psi

Substrate ruptures

COMPRESSIVE STRENGTH:

9000 - 10 000 psi, ASTM D695

WATER ABSORPTION :0.2%

WATER VAPOR TRANSMISSION ASTM

E96: Water Procedure B

Film 0.01cm (0.004"): 1 PERM

TENSILE STRENGTH: ASTM D638

6000 - 7000

ELONGATION: ASTM D638: 100%

HARDNESS: Shore D = 75-80

PROPRIETIES

SOLIDS IN WEIGHT: 85%

VOC (A+B): 200g/l

VISCOSITY: @25°C (CPS)

Mix: (A+B): 150-200

APPLICATION INFORMATION

15°C (59F – 25°C (77F), R.H below 85%

WORKING TIME: (23°C/12% HR):

40-60min

TACK FREE: 8 MILS: 5-7 hours

NUMBER OF COATS: 1 or 2

RECOAT TIME (min/max): 4-6/ 24 H

COVERAGE/THICKNESS

THICKNESS:

Clear and colours:

1st coat: 5-10 mils

2ndcoat: 6-10 mils

3rd coat recommended: Non-slip satin polyurethane

COVERAGE PER GALLON:

CLEAR/COLOUR:

150-350 ft²/ 3.78 L (1 US gal.) @ 5-10 mils.

Please note that a porous or imperfect surface will require more materials.

DRYING TIME

Substrate Temperature	10 °C	20 °C	30°C
Recoat min/max (h)	16/48	8/24	6/24
Foot traffic (h)	30	24	16
Light traffic (Days)	5	3	2
Full cure (Days)	10	7	5

MIXING

Materials must be preconditioned to a minimum of 15°C (50°F) before use. Thoroughly mix each component separately using paddle mixers and a drill for at least 2 minutes to place the solids content evenly in suspension. Pour Component B into Component A using the appropriate mixing ratio of 1A:1B by volume. Mix the two components for at least 3 minutes using a low-revolution drill (300 to 450 rpm) to reduce air entrapment. During mixing, scrape the bottom and sides of the container at least once to ensure a uniform mixture. Prepare only the amount that can be applied during the pot life of the mix.

PREPARATION SURFACE

Old Concrete

Concrete surface must be cleaned and mechanically prepared using shotblasting, sand blasting, and/ or diamond grinding. All oils, sealers, curing agents, waxes and fats must be removed prior to product application. Do not apply onto wet substrates. Chloride, moisture, and pH levels should be checked prior to application. Strongly recommended to use primer (MF2700) prior to application of MF3590CL. All cracks and substrate imperfections should be filled and repaired prior to application.



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PREPARATION SURFACE (NEXT)

New Concrete

New concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch²) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch²). Shotblasting, sand blasting, and/or diamond grinding is required to remove the surface laitance that appears during the concrete finishing and curing process. MF2700 primer is recommended to be used to seal porous concrete surfaces prior to application. All cracks and substrate imperfections should be filled and repaired prior to application.

APPLICATION

Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

Relative humidity can have a significant impact on drying characteristics. The product dries faster at higher relative humidity, while lower relative humidity will slow drying and handling time. Ensure that the previously applied area is overlapped while it is still damp and not tacky to avoid overlap marks.

Flakes System

Use a colored base coat of MF2700 followed by a complete flake seeding. Wait 8-16 hours then scrape off the excess flakes and vacuum everything. Then apply the clear MF3590CL topcoat or a coat of MF3550 polyaspartic.

PRECAUTIONS FOR USE

Use the floor for light traffic until the coating is fully cured. It is best to keep the floor dry throughout the entire curing cycle. Depending on the system applied, the surface may be slippery, especially when wet or contaminated; keep the surface clean and dry. **Lower temperatures will prolong curing.**

CLEANING TOOLS

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

CLEANING THE SURFACE

Caution! Some cleaning products may affect the colour of the installed system. Test each cleaner on a small area, using the same cleaning technique that will be used for the rest of the surface. If no change is noted, continue cleaning.

DISPOSAL

Allow the mixture to harden and dry thoroughly before disposing of it.

Contact your local municipality for environmentally friendly disposal of containers and surplus materials.

WARRANTY

This product will give complete satisfaction if applied according to the manufacturer's instructions. If it is found defective upon inspection, the manufacturer's liability is limited to replacement of the product and does

RESTRICTIONS:

MF Performance and MF Performance Plus products should not be combined in the same system or with equivalent products from other brands. MF Paints does not guarantee compatibility with any combination of products from other brands. Any product change requires compatibility testing. It is your responsibility to verify product compatibility before use. The use of incompatible products may also void the warranty. We strongly recommend that you read the instructions for use carefully before installing the selected system. If in doubt, do not hesitate to contact your representative for advice.

CAUTION

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

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