



# MF 3490

## Polyaspartic Coating High Solids

### DESCRIPTION

**MF3490** is a solvent based, two component, VOC compliant, aliphatic polyaspartic polyurea coating system. It was specifically developed to be used as a UV stable topcoat finish where installation downtime is limited. It is recommended for areas where a high build top clear coat is desired over colored coatings or vinyl flake broadcast systems. MF3490 provides superior abrasion, chemical, and UV resistance with a crystal-clear glossy finish.

### APPLICATIONS

- Residential
- Food kitchens
- Pharmaceuticals - Hospital
- Car dealership
- Shops Exhibition room
- Commercial Bars Restaurant
- Institutional
- Detention center
- Hotel-Discotheque
- Industrial- Aeronautics

### AVDANTAGES

- Quick return to service
- Good chemical resistance
- UV resistant
- Abrasion resistance
- Hot tires resistance
- Indoor and outdoor application

### LIMITATIONS

- Not recommended for application at temperatures below 10°C / 50°F or above 30°C / 86°F
- Ambient humidity of the surroundings should not exceed 85% during application and during curing process.
- Substrate temperature must be 3°C (5.5°F) above measured dew point.
- Humidity content of substrate must be < 4% at time of application.
- Do not apply on porous surfaces where a transfer of humidity may occur during the application
- Applying this product on a substrate without a moisture barrier may risk delamination due to hydrostatic pressure
- Freshly applied product must be protected against moisture, condensation and water for at least 48 hours

### TECHNICAL INFORMATION

#### FORMAT

2 gallons kit

#### MIX RATIO

Resin: 1 part A / Activator: 1 part B

#### SHELF LIFE :

1 year in unopened containers

#### ABRASION RESISTANCE

30 mg ASTM D4060

#### ADHESION (Concrete-primer)

3.8 MPA @ ASTM D4541 (concrete failure)

#### VISCOSITY

Resin + activator: 100-200 cps

#### ELONGATION: 100% ASTM D638

#### HARDNESS: Shore D = 75-78

#### VOC < 50 g/l

#### WATER ABSORPTION

0.2 % ASTM D570

#### COMPRESSION STRENGTH

65 MPA, ASTM D695

### CHARACTERISTICS

**SOLIDS BY WEIGHT:** 89% (+/- 1%)

**COLOUR:** CLEAR

**COVERAGE:** 133-200 ft<sup>2</sup>/gallon @ 8-12 mils

#### TEMPERATURE OF APPLICATION

10°C - 30°C and HR < 85%

#### DRY TIME: (21°C / 70°F @ 50% HR)

Pot Life .....	35-45 minutes
Tack Free.....	1-2 hours
Light traffic.....	12-24 hours
Full Cure.....	3 days
Working Time(25°C).....	10-15 minutes

### INSTRUCTIONS

#### STORAGE:

MF3490 should be stored in a cool, dry place, at a temperature between 15 ° C to 21 ° C. Do not store near open flames. The shelf life of Part A and B is 12 months. Once Part A is mixed with Part B, pot life is 50 minutes.

#### MIXING

Mix only the amount that you need at one time and pour the mixture within 5 minutes. Unused resin and hardener should be left in original containers. Mix exact amounts of both resin and hardener in separate mixing cups. Do not add more hardener than resin, as this will cause the finished coating to remain sticky.

### SURFACES

- Fiberglass
- Steel
- Concrete
- Wood

### SYSTEM

- Flakes System MF DECOR
- Quartz
- Silica Sand



**SURFACE PREPARATION**

Remove dust, dirt, grease. When this product is applied over an existing epoxy, ensure to adequately sand to achieve a dull finish. If previous coat has dried more than 24 hours, the surface must be mechanically sanded and the dust must be completely removed.

If MF3490 is applied full broadcast vinyl flakes, excess flakes should be scraped in a cross pattern and thoroughly removed.

**RECOMMENDED PRIMERS**

All cracks, holes and irregularities should be repaired prior to coating application. Use MF8190 or MF818 for inactive cracks or 829 HV for dynamic cracks and saw cuts. (consult the technical data sheets of the products for additional information).

Either MF 3490 or MF015, the water-based epoxy sealer can be used as a primer on the concrete floor

**APPLICATION**

MF 3490 is applied at 8-12 mils. using a rubber squeegee and leveled with a 10mm roller to achieve an even coating. The 2 actions must be done simultaneously.

Relative humidity can have a pronounced influence on the drying characteristics. Product will dry faster if relative humidity is higher while lower relative humidity will slow drying and handling time. Make sure that the overlap on the previously applied area is done when it is still wet and non-sticky in order to avoid overlap marks.

**PRECAUTIONS FOR USE**

Use the floor in light traffic until the coating is fully cured. It is preferable that the soil remains dry during the entire ripening cycle. Depending on the system applied, the surface can be slippery, especially when wet or contaminated; keep the surface clean and dry. **Lower temperatures will prolong ripening**

**MAINTENANCE**

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

**CLEANING TOOLS**

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

**DISPOSITION**

Allow the A + B mixture to harden and dry well before placing it

**Contact your municipality to dispose of containers and surpluses 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**