

# **MF3590CL**

POLYASPARTIC COATING SYSTEM
ALIPHATIC-HIGH SOLIDS

# **DESCRIPTION**

**MF3590CL** is a two-component, high solids, V.O.C. compliant, long working time aliphatic polyaspartic, developed for UV stable floor topcoats. It provides outstanding appearance, superior chemical, UV, and solvent resistance. It exhibits excellent physical properties.

This system complies with the Canadian Food Inspection Agency (C.F.I.A.).

The clear version is primarily used as a topcoat over vinyl flake, providing excellent appearance

## **APPLICATIONS**

- Marine protection for fiberglass, steel, concrete, or wood
- Aircraft hangar floors
- Low-temperature equipment
- Offshore platforms
- Industrial workshop floors
- Car washes or wash bays
- Decks

#### **ADVANTAGES**

- Superior chemical resistance
- Superior weather resistance
- Superior abrasion resistance
- Yellowing resistance
- Gloss retention
- Very low odor
- Applicable indoors and outdoors
- Excellent adhesive properties, allowing application over other firm and hard coatings
- VOC compliant in all 50 states and Canada

#### **LIMITATIONS**

- Minimum/maximum substrate temperature: 15°C/30°C (59°F/86°F).
- Maximum relative humidity during application and curing: 85%.
- Substrate humidity must be less than 4% during coating application.
- Protect from moisture, condensation, and water contact during the initial 24 hours of curing.
- Does not protect against high hydrostatic pressure.

## **TECHNICAL INFORMATION**

FORMAT: Kit of 2 gallons.

RATIO:

Resin: 1 parts A / Activator: 1 part B

POT LIFE (450g) at 25 °C: 40-50 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)

WATER ABSORPTION: ASTM D570: 0.2% WATER VAPOR TRANSMISSION: ASTM E96 Water Procedure B - Film 0.01cm (0.004"): 1 perm

FALLING SAND ABRASION RESISTANCE 45 (L SAND/1 DRY MIL). ASTM D968

GLOSS ASTM D523:95+

FLEXIBILITY, 1/8" MANDREL ASTM D1737

**FIRE RATING CAN/ULC S102:** Estimated on similar coating:

Flame spread: 5

Smoke developed: 94

TEAR STRENGTH (PLI), ASTM D2240: 350 COMPRESSIVE STRENGTH: ASTM D695

9000-10 000+ psi,

TENSILE STRENGTH: ASTM D638

7000-8000 psi

**ELONGATION:** ASTM D638: 100-110%

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

# **PROPRIETIES**

GLOSS ASTM D523: >95% SOLIDS IN WEIGHT MIX: 98.5% SOLIDS BY VOLUM MIX: 98.5%

**VOC:** 28g/l

**VISCOSITY:** @25°C (CPS) Mix: (A+B): 300-400

#### APPLICATION INFORMATION

15°C (59F – 25°C (77F), R.H below 85%

WORKING TIME: 35-45 min NUMBER OF COATS: 1 or 2

## **COVERAGE/THICKNESS**

#### THICKNESS:

Clear and colours: 1<sup>st</sup> coat: 5-10 mils 2<sup>nd</sup>coat: 6-10 mils

3rd coat recommended: Non-slip satin

## **COVERAGE PER GALLON:**

CLEAR/COLOUR:

150-350 ft<sup>2</sup>./ 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)	24/48	6/12	4/8
Foot traffic (days)	3	2	1
Light traffic (Days)	7	5	3
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.

#### **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.



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## 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. In the event that it is found defective upon inspection, the manufacturer's liability is limited to replacement of the product and does not include labor during application.

### **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 byproducts 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.

## **CHEMICAL RESISTANCE**

Acetone         C           Ammonium Hydroxide 50%         RC           Benzene         C           Brine Saturated H20         R           Chlorinated H20         R           Clorox (10%) H20         R           Diesel Fuel         RC           Gasoline         RC           Gasoline/5% MTBE         RC           Gasoline/5% Methanol         RC           Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydrochloric Acid 10%         NR           Hydrochloric Acid 10%         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 20%         R, Dis           Potassium Hydroxide 50%         R           Sodium Hydroxide 50%         R           Sodium H	Acetic Acid 100%	С
Benzene         C           Brine Saturated H₂0         R           Chlorinated H₂0         R           Clorox (10%) H₂0         R           Diesel Fuel         RC           Gasoline         RC           Gasoline/5% MTBE         RC           Gasoline/5% Methanol         RC           Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydrochloric Acid 10%         NR           Hydrochloric Acid 10%         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           NaCl/H20 10%         R           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 50%		С
Brine Saturated H₂0         R           Chlorinated H₂0         R           Clorox (10%) H₂0         R           Diesel Fuel         RC           Gasoline         RC           Gasoline/5% MTBE         RC           Gasoline/5% Methanol         RC           Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydrochloric Acid 10%         NR           Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 50%         R, Dis           Sodium	Ammonium Hydroxide 50%	
Chlorinated H₂0         R           Clorox (10%) H₂0         R           Diesel Fuel         RC           Gasoline         RC           Gasoline/5% MTBE         RC           Gasoline/5% Methanol         RC           Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           Nacl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Bicarbonate         R           Stearic Acid         R           Sulfuric Acid >50%	Benzene	С
Clorox (10%) H₂0         R           Diesel Fuel         RC           Gasoline         RC           Gasoline/5% MTBE         RC           Gasoline/5% Methanol         RC           Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           Nacl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 50%         R           Sodium Hydroxide 50%         R           Sodium Bicarbonate         R           Steari	Brine Saturated H <sub>2</sub> 0	R
Diesel Fuel         RC           Gasoline         RC           Gasoline/5% MTBE         RC           Gasoline/5% Methanol         RC           Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           Nacl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Bicarbonate         R           Stearic Acid         R           Sulfuric Acid 10%         R           Sulfuric Acid 50		
Gasoline         RC           Gasoline/5% MTBE         RC           Gasoline/5% Methanol         RC           Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Bicarbonate         R           Stearic Acid         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene <td>Clorox (10%) H<sub>2</sub>0</td> <td>R</td>	Clorox (10%) H <sub>2</sub> 0	R
Gasoline         RC           Gasoline/5% MTBE         RC           Gasoline/5% Methanol         RC           Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Bicarbonate         R           Stearic Acid         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene <td>Diesel Fuel</td> <td>RC</td>	Diesel Fuel	RC
Gasoline/5% Methanol         RC           Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Bicarbonate         R           Stearic Acid         R           Sulfuric Acid 10%         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC	Gasoline	
Gasoline/5% Methanol         RC           Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethan	Gasoline/5% MTBE	RC
Hydrochloric Acid 20%         R           Hydrochloric Acid 10%         NR           Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichlo	Gasoline/5% Methanol	RC
Hydrochloric Acid 10%         NR           Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium	Hydrochloric Acid 20%	
Hydraulic Fluid (oil)         RC           Isopropyl Alcohol         R           Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hydroxide 50%         R, Dis           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂		NR
Isopropyl Alcohol		RC
Lactic Acid         RC           MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hydroxide 50%         R, Dis           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H <sub>2</sub> 0         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0         R <td>Isopropyl Alcohol</td> <td>R</td>	Isopropyl Alcohol	R
MEK         RC           Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hydroxide 50%         R, Dis           Sodium Bicarbonate         R           Stearic Acid         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0         R	Lactic Acid	RC
Methanol         R           Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Potasphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0 14 days at 82°C         R		RC
Methylene Chloride         C           Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H <sub>2</sub> 0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0         R           R         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0		
Mineral Spirits         RC           Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H <sub>2</sub> 0         R           Sulfuric Acid 10%         R           Sulfuric Acid 550%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0 14 days at 82°C         R		
Motor Oil         R           MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H <sub>2</sub> 0         R           Sulfuric Acid 10%         R           Sulfuric Acid 550%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0         R           H <sub>2</sub> 0         R	Mineral Spirits	
MTBE         C           Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H <sub>2</sub> 0         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0         R           H <sub>2</sub> 0         R	Motor Oil	
Muriatic Acid 10%         R           NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂0 5%         R           H₂0 14 days at 82°C         R		С
NaCl/H20 10%         R           Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂0 5%         R           H₂0 14 days at 82°C         R		
Nitric Acid 20%         NR           Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂0 5%         R           H₂0 14 days at 82°C         R		
Phosphoric Acid 10%         R           Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid 10%         R           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂0 5%         R           H₂0         R           H₂0 14 days at 82°C         R	Nitric Acid 20%	
Phosphoric Acid 50%         NR           Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂0 5%         R           H₂0         R           H₂0 14 days at 82°C         R		
Potassium Hydroxide 10%         R           Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H20         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H20 5%         R           H20         R           H20 14 days at 82°C         R	Phosphoric Acid 50%	NR
Potassium Hydroxide 20%         R, Dis           Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H20         R           Sulfuric Acid 10%         R           Sulfuric Acid 50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H20 5%         R           H20         R           H20 14 days at 82°C         R		
Propylene Carbonate         RC           Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H <sub>2</sub> 0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0 14 days at 82°C         R	Potassium Hydroxide 20%	
Skydrol         C           Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H <sub>2</sub> 0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0 14 days at 82°C         R	Propylene Carbonate	
Sodium Hydroxide 25%         R           Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H <sub>2</sub> 0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0 14 days at 82°C         R	Skydrol	
Sodium Hydroxide 50%         R, Dis           Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂0 5%         R           H₂0         R           H₂0 14 days at 82°C         R	Sodium Hydroxide 25%	
Sodium Hypochlorite 10%         R           Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂0 5%         R           H₂0         R           H₂0 14 days at 82°C         R	Sodium Hydroxide 50%	R, Dis
Sodium Bicarbonate         R           Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂0 5%         R           H₂0         R           H₂0 14 days at 82°C         R	Sodium Hypochlorite 10%	
Stearic Acid         R           Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂0 5%         R           H₂0         R           H₂0 14 days at 82°C         R	Sodium Bicarbonate	R
Sugar/H₂0         R           Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H₂0 5%         R           H₂0         R           H₂0 14 days at 82°C         R		R
Sulfuric Acid 10%         R           Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0 14 days at 82°C         R		R
Sulfuric Acid >50%         RC           Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0 14 days at 82°C         R	Sulfuric Acid 10%	
Toluene         R           1,1,1-Trichloroethane         C           Trisodium Phosphate         R           Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0 14 days at 82°C         R	Sulfuric Acid >50%	
1,1,1-Trichloroethane       C         Trisodium Phosphate       R         Vinegar/H <sub>2</sub> 0 5%       R         H <sub>2</sub> 0       R         H <sub>2</sub> 0 14 days at 82°C       R		
$ \begin{array}{ccc} \text{Trisodium Phosphate} & R \\ \text{Vinegar/H}_2\text{0} & 5\% & R \\ \text{H}_2\text{0} & R \\ \text{H}_2\text{0} & 14 \text{ days at } 82^{\circ}\text{C} & R \\ \end{array} $		
Vinegar/H <sub>2</sub> 0 5%         R           H <sub>2</sub> 0         R           H <sub>2</sub> 0 14 days at 82°C         R		
H <sub>2</sub> 0 R H <sub>2</sub> 0 14 days at 82°C R		R
H <sub>2</sub> 0 14 days at 82°C R	H <sub>2</sub> 0	

R = Recommended/little or no visible damage RC = Recommended Conditional/some effect, swelling or discoloration

**C** = Conditional/cracking-wash within one hour of spillage to avoid affects

NR = Not Recommended

Dis = Discoloration

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.