



Master Protective Coatings Inc.

## Product Description

**MPC-TROWEL** is a multi-component self-leveling, epoxy-based mortar system applied at thicknesses between 3mm – 6mm ( $\frac{1}{8}$ in –  $\frac{1}{4}$ in). It is designed to be used in areas where a medium duty, high build coating is needed or to repair areas of damaged concrete. It provides excellent compression, impact and abrasion resistance.

This system is composed of:

1. Primer Coat (**MPC-100**) 160-200 **square feet / gallon** @ 8-10 mils
2. Optional Primer Coat (**MPC-155**) 160-200 **square feet / gallon** @ 8-10 mils or (**MPC-165**) 90-100 **square feet / gallon** @ 16-18 mils
3. Basecoat (**MPC-TROWEL**) applied at thicknesses between 3mm-6mm (10-40 square feet per kit)
4. Sealing Grout Coat as many as needed (**MPC ORANGE PEEL**) 60-100 **square feet / gallon** @ 15-25 mils
5. Topcoat (**MPC-100**) 160-200 **square feet / gallon** @ 8-10 mils
6. Optional aliphatic coating with UV protection for exterior areas (**MPC-275 or MPC-280**) 160-200 **square feet / gallon** @ 8-10 mils wet film thickness

This coating system meets the VOC regulations limit of under 100 g/L for architectural floor coatings. This system is comprised of high-end products to provide tailor-made solutions based on the end use of the system. **Please refer to individual product data sheets for more information on technical and physical product properties.**

## Areas of application

- Industrial Use – Mechanical rooms; Processing and manufacturing plants; Service areas; Equipment Assembly
- Commercial Use – Warehouses; Restaurants; Kitchens; Workshops

## Surface Preparation

The concrete surface to be coated must be structurally sound and free of curing membranes, paint, or other sealants. Remove dust, laitance, grease, oil, dirt, surface curing agents, impregnating agents, wax, foreign matter, coatings, and loosened substances by mechanical means such as shotblasting (BLASTRAC) or any other approved method to obtain an ICRI-CSP 3-4 profile. The compressive strength of the concrete must be at least 25 MPa (3625 psi) after 28 days of curing and the tensile strength of at least 1.5 MPa (218 psi).

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The concrete must be dry before applying the coating. Concrete moisture testing is strongly recommended via the calcium chloride test (ASTM F1869) or in situ probe (ASTM F2170). Calcium chloride test results should be less than 3 pounds per 1000 square feet over a 24-hour period or 75% less for the internal concrete relative humidity.

### Mixing Instructions

The products must be conditioned between for 18°C (65°F) and 30°C (86°F) prior to application. Pre-mix each component separately. Open part A container, then add component B into it. Mix the components using a low-speed drill (300-450 rpm) to reduce air entrapment and to obtain a homogeneous mixture.

#### **MPC-TROWEL PREPARATION:**

Transfer the A/B mixture into a mixing container for mortars and use a mixer to gradually incorporate the aggregates / mix until all the aggregates are evenly incorporated. As the pot life is limited, prepare amount of desired product as required to avoid any loss.

### Product Application

#### APPLICATION: Primer coat of MPC-100 (OPTIONAL MPC-155 or MPC-165)

Apply these coatings as recommended on their technical data sheet.

#### APPLICATION: MPC-TROWEL

Apply using a trowel, an adjustable rake, or a screed box to achieve desired thickness and smooth with a rounded stainless-steel trowel.

#### APPLICATION: MPC-ORANGE PEEL

Apply using a brush or a roller and force the penetration of the epoxy with a steel, plastic or rubber spatula to fill the irregularities of the surface. Pass a roller to obtain a uniform coating. Then pass a textured roller to obtain the uniform texture desired. Multiple layers may be required depending on the finish desired.

#### APPLICATION: Topcoat of MPC-100

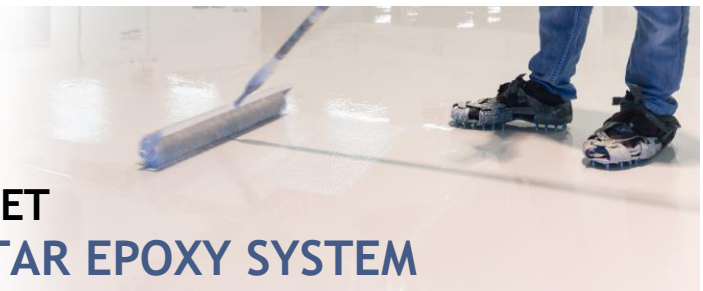
Apply these coatings as recommended on their technical data sheet.

#### APPLICATION: Optional aliphatic UV stable Topcoat of MPC-275/ MPC-280

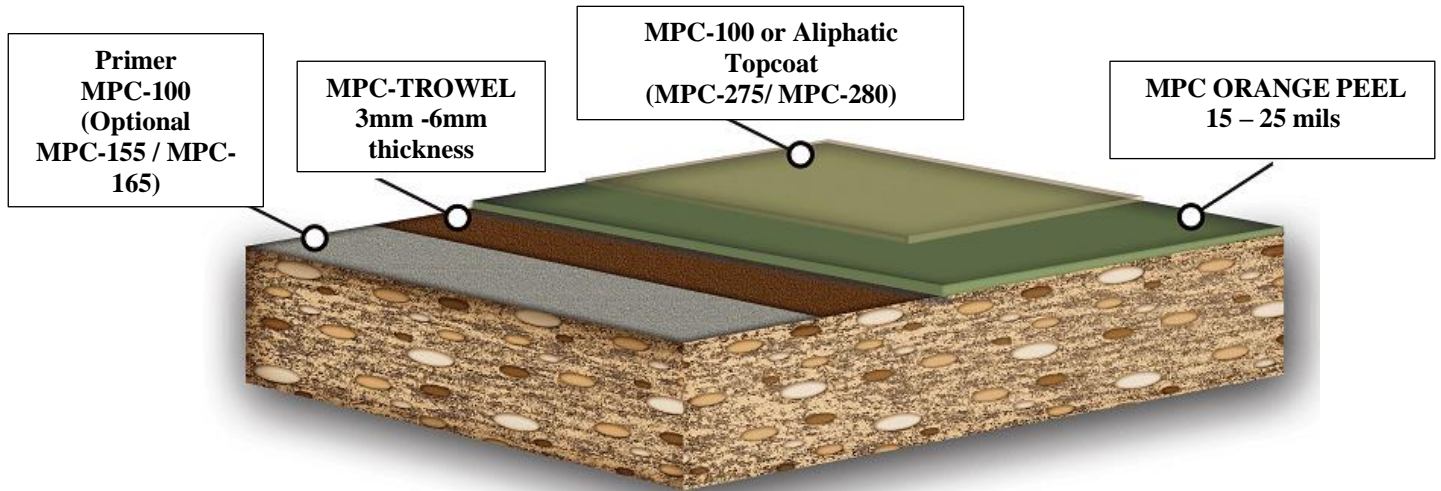
Apply topcoat of MPC-275 or MPC-280 using a rubber squeegee and roll to obtain a uniform coating (using a fine quality 10mm roller).

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## Product Restrictions

- 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 must be clean, sound and dry.
- Substrate temperature must be 3°C (5.5°F) above measured dew point.
- Humidity content of substrate must be < 4% at time of application.

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- 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.
- Surface discoloration of product may occur when exposed to UV rays.
- Exposure during the curing stage of the coating to the by-products of propane combustion may cause discoloration (amine blushing)

## Health and Safety

Components A and B contain toxic and corrosive ingredients. Consult the safety data sheet (S.D.S) for further information.

## Disclaimer and Product Warranty

MPC warrants that our products are free from manufacture defects in accordance with our quality control procedures. Any products proven defective are limited to the replacement of defective product or refund of the purchase price as determined by MPC. Please contact your local MPC sales representative for more information and warranty requirements.

The information and recommendations contained in this technical data sheet are based on reliable test results according to MPC. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. MPC assumes no legal responsibility for the results obtained in such cases. MPC assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.

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