



Master Protective Coatings Inc.

Product Description

MPC-FLAKE-1000 is a self-leveling, epoxy/polyaspartic vinyl flake broadcast system specifically designed for use as a rapid cure 1-day system.

This system is composed of:

1. Primer Coat (**MPC-155**) 160-200 **square feet / gallon** @ 8-10 mils
2. Optional Primer Coat (MPC-165) 90-100 **square feet / gallon** @ 16-18 mils
3. Full vinyl flake broadcast on wet coating (~ 2 lbs /10 ft²)
4. Aliphatic coating with UV protection for exterior areas (**MPC-275 or MPC-280**) 160-200 **square feet / gallon** @ 8-10 mils wet film thickness

The MPC-155 is a two-component very fast curing 100% solids epoxy floor coating designed to be used where installation downtime is limited. The MPC-165 is a two-component super fast curing epoxy moisture vapor barrier coating developed to be used in areas of high humidity or on green concrete. The MPC-275 is a two component, solvent based, VOC compliant, aliphatic polyaspartic polyurea coating developed to be used as a UV stable topcoat finish where installation downtime is limited, and an anti-slip textured finish is required. The MPC-280 is a higher solids version with a 2:1 curing ratio to be used where a higher build solid topcoat is desired.

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 - Garages; Warehouses; Airports and hangars; Processing and manufacturing plants
- Commercial Use - Shopping malls and boutiques; Hotels; Offices; Showrooms; Restaurants; Hospitals; Schools; Community centers
- Residential Use – Entrances and hallways; basements; entertainment rooms; bathrooms; kitchens and living rooms; outdoors spaces and pool outlines

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

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TECHNICAL DATA SHEET
**MPC-FLAKE-1000 EPOXY/POLYASPARTIC VINYL FLAKE
BROADCAST SYSTEM**



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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).

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.

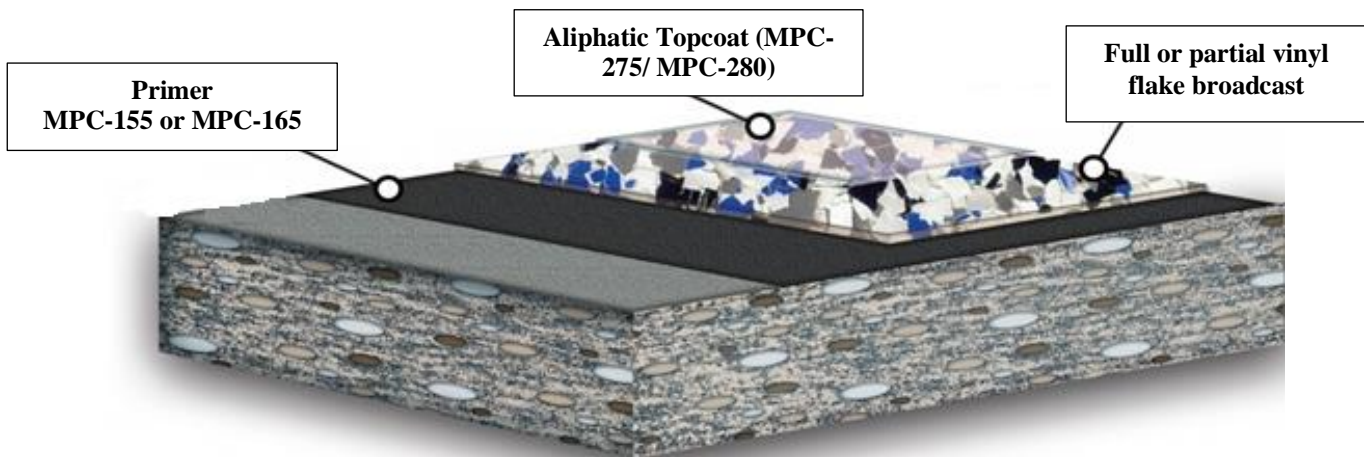
Product Application

APPLICATION: Primer coat of MPC-155 or MPC-165 / full flake broadcast

Apply the coating as recommended on their technical data sheet. These products react extremely fast and should be applied as soon as homogenous mix is achieved. On the wet coating apply enough vinyl flakes to completely cover the coating. (~ 2 lbs / 10 ft²) Once the basecoat has cured (~2-3 hours) remove the excess flakes and pass a scraper to cut down any uneven flakes. Use a blower or vacuum cleaner to clean any remaining flakes.

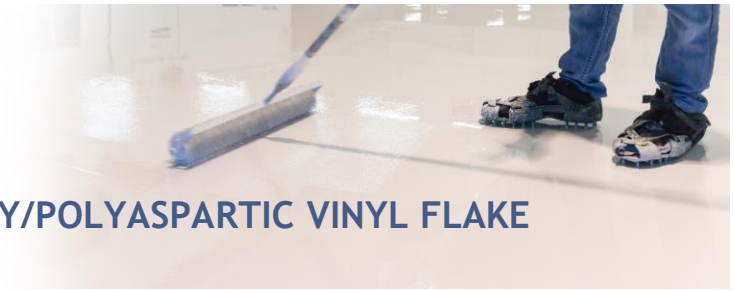
APPLICATION: Topcoat of MPC-275 or MPC-280

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.
- 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.

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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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