

Master Protective Coatings Inc.

Product Description

MPC-QUARTZ BROADCAST is a multi-component self-leveling, epoxy-based quartz broadcast system applied at thicknesses between 1.5mm – 3mm ($\frac{1}{16}$ in – $\frac{1}{8}$ in). It is designed to be used in areas where a medium duty, high build quartz finish is needed. 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-100**) with full colored quartz broadcast applied at thicknesses between 60-100 **square feet / gallon** @ 15-25 mils
4. Second coat (**MPC-100**) with full colored quartz broadcast applied at thicknesses between 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 or (**MPC-301**) to provide a durable wear satin finish 400-500 **square feet / gallon** @ 3-4 mils

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

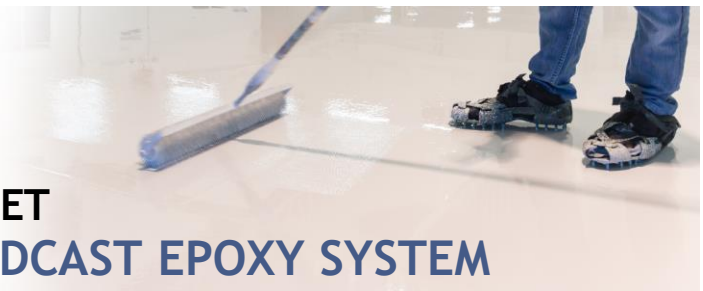
- Industrial Use - Garages; Warehouses; Airports and hangars; Processing and manufacturing plants
- Commercial Use - Shopping malls and boutiques; Hotels; Offices; Showrooms; Restaurants; Hospitals; Schools; Community centers
- Residential Use – Entrances and hallways; basements; entertainment rooms; 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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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-100 (OPTIONAL MPC-155 or MPC-165)

Apply these coatings as recommended on their technical data sheet.

APPLICATION: MPC-QUARTZ BROADCAST

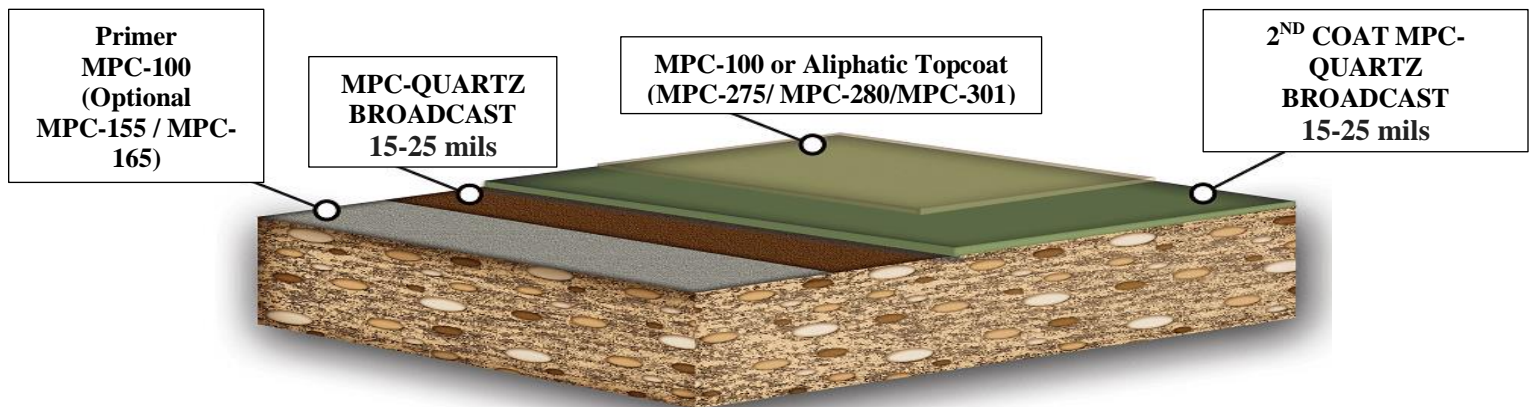
Apply the coating using a rubber squeegee and pass a roller to obtain a uniform coating. Broadcast the quartz aggregates into the wet coating until full saturation is achieved. Once the first coat has cured completely, remove any excess aggregates, and make sure the surface is clean. Apply a 2nd coat using a rubber squeegee and pass a roller to obtain a uniform coating. Broadcast the quartz aggregates into the wet coating until full saturation is achieved.

APPLICATION: Topcoat of MPC-100

Apply the coating as recommended on the technical data sheet.

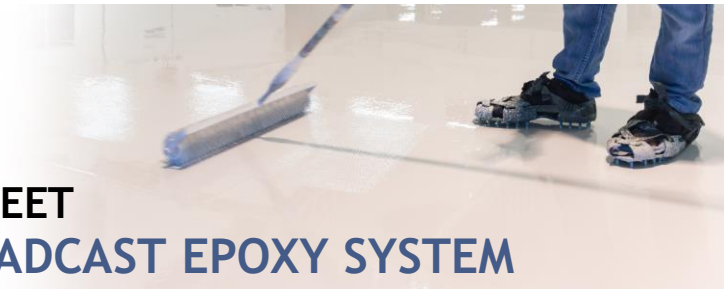
APPLICATION: Optional aliphatic UV stable Topcoat of MPC-275/ MPC-280/MPC-301

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). Apply the MPC-301 using a fine quality roller.

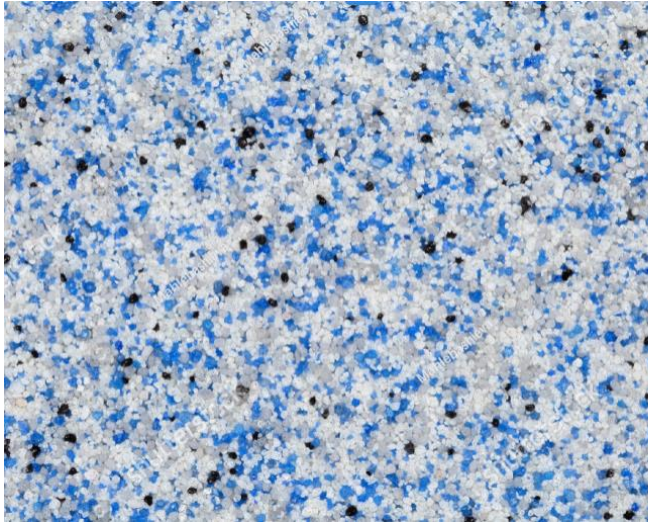


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Product Restrictions

- 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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