

Master Protective Coatings Inc.

Product Description

MPC-165 is a 100% solid, two component epoxy coating designed for controlling moisture vapor emissions on new or deteriorated concrete floors. This coating is recommended to be applied in areas of high humidity or on wet concrete. When applied at a thickness of 18 mils, it exceeds ASTM F3010 product requirements for vapor permeance. This coating will withstand moisture vapor emission rates up to 25lbs./24hrs./1000 ft² when applied properly.

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

Packaging and Recommended Thickness

MPC- 165 is offered in the following kit sizes:

- 3-gallon kit (7.56L resin (A) and 3.78L hardener (B))
- Bulk packaging also available upon request

Recommended Film Thickness: 90-100 sq. ft. @ 18mils

Surface Preparation

Remove dust, dirt, grease, oil and all other contaminants with proper cleaner/degreaser. Prepare the surface mechanically as per ICRI-CSP2 profile by diamond grinding to ensure removal of laitance, curing agents and sealers. The compressive strength of a newly poured concrete substrate must be at least 25 MPA (3635 psi) after 28 days cure and at least 1.5 MPA (218 psi) tensile strength. Be careful with condensation (within 10 degrees of the dew point). All cracks, holes and irregularities must be repaired with our epoxy crack filler (MPC-125) prior to applying the coating.

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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 for 2-3 minutes each. Open container with 2 parts of component A in it, then add the 1 part of component B to it (mixing ratio 2:1). Mix the components for at least 2-3 minutes using a low-speed drill (300-450 rpm) to reduce air entrapment and to obtain a homogeneous mixture.

Product Application

1. Apply 1st coat of MPC-165 using a rubber squeegee and roll to obtain a uniform coating (using a fine quality 10mm roller).

Clean equipment with xylene. Once the product has hardened, it may only be removed mechanically.

Product Restrictions

- Not recommended for application at temperatures below 5°C / 41°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 < 6% at time of application.
- Do not apply on porous surfaces where a transfer of humidity may occur during the application.
- **This coating is not a replacement for a waterproofing membrane.**
- **This coating does not protect against areas of high 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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Technical Properties

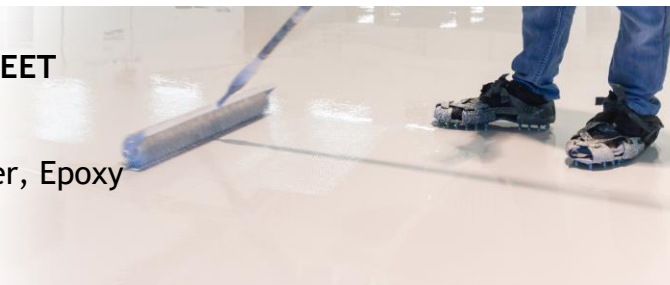
Mix Ratio:	By volume: 2-parts resin (A) to 1-part hardener (B) By weight: 100g of resin (A) to 45g of hardener (B)
Viscosity:	Resin (A): 1200 – 1400 cps Hardener (B): 200 – 300 cps Mixed: 700 – 900 cps
Pot Life (142g):	30-45 minutes at room temperature

Physical Properties

Solids by Weight:	100% (+/- 1%)
Shelf Life:	1 year in unopened containers
Vapor Permeance @18mil thickness	0.1 US perm, ASTM E96
MVER/RH @ 18 mil thickness	25lb./24hr./1000 ft ² , ASTM F1869
Abrasion Resistance:	Taber abraser CS-17 calibre wheel with 1000-gram total load and 1000 cycles = 10 mg loss
Flexural Strength:	5,500 psi, ASTM D638
Compressive Strength:	10 500 psi, ASTM D695
Tensile Strength:	6 500 psi, ASTM D638
Adhesion:	>300 psi, ASTM D4541 (concrete failure)
Hardness:	Shore D = 85-90
Application Temperature:	15°C-21°C with relative humidity below 85%
Drying Times:	21°C / 70°F @ 50% relative humidity (Cure times vary depending on temperature) Pot life per 3-gallon kit: 20-25 minutes Re-coat or topcoat: 8-12 hours Light foot traffic: 12-24 hours Full cure (heavy traffic) - 7 days

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Disclaimer

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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