REVÊTEMENTS MPC COATINGS

TECHNICAL DATA SHEET

MPC-100 CR

HIGH CHEMICAL RESISTANT EPOXY NOVOLAC COATING SYSTEM

PRODUCT DESCRIPTION

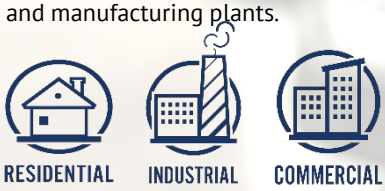
MPC-100 CR is a 2-component, 100% solids, self-leveling and high-build epoxy novolac floor coating. It is designed to be used as a chemical resistant protective coating over an existing epoxy coating. It can also be used as the binder component for resurfacing or patching surfaces exposed to severe and aggressive industrial environments. **MPC-100 CR** is a specifically formulated coating that possesses excellent chemical resistance to inorganic acids, concentrated sulphuric acid and oxygenated solvents.

AREAS OF APPLICATION

Residential Use – Entrances and hallways; basements; entertainment rooms; bathrooms; kitchens and living rooms; outdoors spaces and pool outlines.

Commercial Use - Shopping malls and boutiques; Hotels; Offices; Showrooms; Restaurants; Hospitals; Schools; Community centers.

Industrial Use - Garages; Warehouses; Airports and hangars; Processing and manufacturing plants.



ENVIRONMENTAL APPROVALS/ CERTFICATES

- Meets CFIA and USDA requirements for indirect food contact / use in food plants.
- Conforms with LEEDv4 EQ credit: Low emitting materials SCAQMD Method 304-91 for architectural coatings.
- VOC content <100 g/L

PACKAGING AND RECOMMENDED THICKNESS

MPC- 100 CR 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
Available in clear, pre-tint light grey, and medium grey.
Color pigment packs are offered in 16 oz jars (2 jars / 3-gallon kit)

Recommended Film Thickness / Coverage
Must be applied over an epoxy primer / 2 coats of MPC-100 CR are required.
1st Coat: 15 mils / 320 sq. ft. / per 3-gallon kit
2nd Coat: 15 mils / 320 sq. ft. / per 3-gallon kit

PRODUCT PROPERTIES

Mix Ratio:	2 parts resin A / 1 part hardener B by vol.		
Viscosity: ASTM D445-06	Resin 1200 -1400 cps. Hardener 1000 -1200 cps.		
Solids by wt.:	100%		
Shelf Life:	1 year when stored in original, unopened packaging. Store dry at temperatures between 15°C to 30°C (59 °F to 86 °F). **Two-part epoxies may exhibit non-permanent, reversible crystallization when exposed to cold temperatures or temperature cycling during transit and storage.**		
Working time on substrate:	30-35 minutes 21°C / 70°F @50% relative humidity		
Curing Schedule	10°C (50°F)	20°C (68°F)	30°C (86°F)
Recoat (max. 48 hrs)	24-48 hrs.	18-24 hrs.	16-18 hrs.
Foot traffic	~2 days	~1 days	~18 hrs.
Vehicular traffic	~4 days	~2 days	~2 days
Full Chemical Cure	~10 days	~7 days	~5 days
Product Application:	Apply using a rubber squeegee and back roll using a fine quality 10mm roller to obtain a uniform coating. Clean equipment with appropriate solvent. Once the product has hardened, it may only be removed mechanically.		

Curing times are subject to variations determined by the ambient conditions, including air and substrate temperature, as well as relative humidity. It is imperative to shield the coating from moisture, condensation, and direct water exposure during the initial 24-hour curing period. If the recommended recoating time has exceeded 48 hours, it becomes necessary to sand the prior coat using a screed mesh to eliminate any glossy finish. Moreover, thorough cleaning by vacuuming is essential to eradicate any dust particles. The surface should exhibit a consistent matte appearance, entirely devoid of any gloss, following the cleanup process, before proceeding to apply the next coat.

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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 of cure and at least 1.5 MPA (218 psi) tensile strength. **Be careful with condensation (at least 3 degrees of the dew point).** All cracks, holes and irregularities must be repaired with a crack filler prior to applying the coating.

MIXING INSTRUCTIONS

Empty container B (hardener) into container A (resin). Mechanically mix the combined product for a maximum of 1 minute using a low-speed drill (300-450rpm) to reduce air entrapment and to obtain a homogeneous mixture. Once the product is mixed proceed to application instructions. **Do not let the product sit in container as it will rapidly start to react and cure.**

MIX A&B

LOW SPEED
1MIN MAX

TECHNICAL PROPERTIES

Abrasion Resistance, ASTM D4060	Taber abraser CS-17 calibrase wheel 1000 cycles/1000 g = 0.1-gram loss
Elongation @ Break, ASTM D638	8% at break
Compressive Strength, ASTM D695	8,420 psi
Tensile strength, ASTM D638	4,200 psi
Pull-Off Strength, ASTM D7234	> 363 psi (substrate failure)
Thermal Compatibility, ASTM C884	Substrate Failure
Hardness, Shore D ASTM D2240	75-80
VOC, ASTM D2369	< 50 g/L
GLOSS, ASTM D523	85 GU @ 60°

PRODUCT RESTRICTIONS

- Not recommended for application at temperatures below 10°C / 50°F or above 30°C / 86°F. An application below/above these temperatures will result in decreased product workability and cure times.
- Ambient humidity of the surroundings should not exceed 85% during application and during curing process.
- The substrate temperature must be at least 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 will occur upon prolonged exposure to UV rays.
- Exposure during the curing stage of the coating to the by-products of propane combustion may cause discoloration (amine blushing).

DISCLAIMER AND 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 products 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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