



Master Protective Coatings Inc.

Product Description

MPC-125 is a two component, sag resistant structural epoxy system designed to repair vertical or horizontal cracks. It has excellent adhesion to concrete, masonry, wood, metal and plastics

Benefits of using MPC-125

- Contains no solvent with a very low VOC content, allowing for interior applications without harmful odors
- Ideal for easy cleaning of the wall floor junction
- Superior compression force
- Can be used on large vertical surfaces
- Waterproof and seamless
- Dense surface resistant to bacteria and moisture and easy to clean
- Excellent adhesive properties, allowing for application on a wide variety of substrates
- May apply several layers on itself with excellent adhesion

Application Areas

- Food Industry (Restaurants)
- Showrooms
- Institutional (Universities, Hospitals)
- Pharmaceutical
- Homes, Basements
- Industrial (Garages, Automotive)
- Commercial (Shopping Centers and Retail stores)

Packaging and Recommended Thickness

MPC- 125 is offered in the following kit sizes:

- 1 gallon kit (3L resin (A) and 1L hardener (B))
- Bulk packaging also available upon request

Product Coverage:

1/8in x 1/8in cracks = ~ 1100 linear feet per gallon / 11.3 ml/m

Wall/floor junction with 1in radius =~ 38 linear feet per gallon / 327 ml/m

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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 cure and at least 1.5 MPA (218 psi) tensile strength. Be careful with condensation (within 10 degrees of the dew point).

Mixing Instructions

The products must be at room temperature for application 18°C (65°F) and 30°C (86°F). Pre-mix each component separately for 2-3 minutes each. Open recipient 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. For cracks, saw cuts, small holes, masonry block joints etc.: Using a trowel, spatula or other suitable equipment evenly spread the crack filler.
2. For floor wall junctions (ceiling wall junctions or corner walls): Using a spatula spread a quantity of material (bead) and shape the bead with a round trowel spoon at the floor wall junction. Do not leave any excess material to avoid sanding (very difficult to sand)

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

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)

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Health and Safety

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

Technical Properties

Mix Ratio:	By volume: 2-parts resin (A) to 1-part hardener (B) By weight: 100g of resin (A) to 42g of hardener (B)
Viscosity:	Resin (A): Paste Hardener (B): Paste
Pot Life (142g):	50 minutes at room temperature

Physical Properties

Solids by Weight:	100% (+/- 1%)
Shelf Life:	1 year in unopened containers
Compressive Strength:	8000 - 9000 psi, ASTM D695
Tensile Strength:	6 500-7500 psi, ASTM D638
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 1-gallon kit: 20-25 minutes Re-coat or topcoat. 4-6 hours

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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