

PRODUCT DESCRIPTION

MPC-263 is a super-fast curing two component, polyurea crack filler with a fast return to service. It is recommended for use to set anchor bolts, to fill surface cement cracks or to repair damaged control joints. This coating can be used at temperatures as low as -20°C (-4°F) with a return to service within 30 minutes.



V.O.C. APPROVED

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.



RESIDENTIAL

INDUSTRIAL

COMMERCIAL

ENVIRONMENTAL APPROVALS/ CERTIFICATES

- 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-263 is offered in the following kit sizes:
2-gallon kit 3.78 L resin (A) and 3.78L hardener (B)
A/B mixture results in a cement grey color.

Recommended Film Thickness / Coverage

¼" x ¼" cracks = 460 linear feet per 2-gallon kit

Use dry silica sand to fill deeper cracks up to a depth of ¼"

PRODUCT PROPERTIES

Mix Ratio:	1 part resin A / 1 part hardener B by vol.		
Viscosity:	Resin: 50-100 cps. Hardener: 50-100 cps.		
ASTM D445-06			
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).		
Working time on substrate:	5 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)	20 min.	15 min.	10 min.
Foot traffic	35 min.	30 min.	25 min.
Vehicular traffic	1 hr.	1 hr.	1 hr.
Full Chemical Cure	~10 days	~7 days	~5 days
Product Application:	Using a trowel, spatula, or other suitable equipment, pour material along the cracks and spread evenly. 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.

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.

MIXING INSTRUCTIONS

Pour out equal volumes of A (4 oz) and B (4 oz) components into a mixing container. Mix the combined product for a **maximum of 15 seconds** using a mixing spatula. 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.**



TECHNICAL PROPERTIES

Abrasion Resistance, ASTM D4060	Taber abraser CS-17 calibre wheel 1000 cycles/ 1000 g = 0.02-gram loss
Compressive Strength, ASTM D695	6,200 psi
Tensile strength, ASTM D638	5,200 psi
Pull-Off Strength, ASTM D7234	> 363 psi (substrate failure)
Elongation @ Break, ASTM D638	7% at break
Hardness, Shore D ASTM D2240	68-72
VOC, ASTM D2369	0 g/L

PRODUCT RESTRICTIONS

- Not recommended for application at temperatures below -20°C / 4°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.

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.