



Master Protective Coatings Inc.

Product Description

MPC-191 is a 100% solids, two component epoxy countertop coating system. It is ideal coating kitchen or bathroom countertop as well as butcher-blocks and bartops. It has a low mixed viscosity that helps avoid excess air entrapment and allows for excellent. This product contains less than 50 g/L VOC and when mixed/cured properly meets the requirements for direct food contact by the Canadian Food Inspection Agency.

Areas of application

- Coating kitchen/bathroom countertops
- Coating butcher-blocks and bartops

Packaging and Product Coverage

MPC- 191 is offered in the following kit sizes:

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

Metallic pigments are offered in 6 oz containers (1 pigment pod per 3-gallon kit)

Coverage: 10 – 12 ft²/gallon @ 1/8”
6 – 8 ft²/gallon @ 1/4”

Surface Preparation

Remove dust, dirt, grease, oil and all other contaminants with proper cleaner/degreaser. A seal coat is recommended on very porous material to help prevent air bubble release during the curing process.

Mixing and Product Application

Warm up the resin and hardener to 24 – 27 °C. This will improve the flow characteristics and bubble release. In a dry, clean container mix 1 part of resin with 1 part of hardener. Be sure to scrape the sides and bottom of the mixing container while mixing. Mix for 3-4 minutes using a paint paddle. After mixing, transfer the mix into a similar mixing container and mix again for another 1-2 minutes.

Pour material into the mold. Wait 15 – 20 minutes then lightly pass a lit propane torch over the surface at a 45°-degree angle with the tip of the torch being at least 6 inches from the surface until all bubbles are gone. The carbon dioxide at the end of the flame helps facilitate bubble release and popping the bubbles. This will help ensure a glass like finish. If latent bubbles exit, a similar torching at 30 minutes may be

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needed. Drips may be sanded off after the item has cured. Pour the epoxy to a maximum of 1/4" thick. Mix only the amount that you need at one time and pour the mixture within 15 minutes. Unused resin and hardener should be left in original containers. Mix exact amounts of both resin and hardener in separate mixing cups. Do not add more hardener than resin, as this will cause the finished coating to remain sticky. Inaccurate measuring will cause epoxy surface to remain soft or sticky spots on the epoxy surface.

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

Product Restrictions

- **MPC-191** should be stored in a dry place between 24° C and 27° C
- Keep out of the sun and out of reach of children.
- Resin and hardener should not be left in an open container.
- Application should be used where humidity is under 60% and temperature is between 21° - 29°C.
- Use a de-humidifier if needed.
- **MPC-191** should be used within one year of purchase.
- Surfaces may discolor in areas exposed to regular ultraviolet light.
- When properly mixed and cured, this epoxy system is safe for direct food contact. However, because the customer is mixing/pouring, each mixture/application would have to be assessed individually to say if it is 100% food safe.

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: 1-parts resin (A) to 1-part hardener (B)
	By weight: 100g of resin (A) to 82g of hardener (B)

Physical Properties

Pot Life @ 25° C	55 minutes
Tack-Free Time @ 25° C	12-14 hours
Ideal Working Temperature Range	Optimal 24 - 27°C
Recommended Full Cure	7 days @ 25°C

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Tensile Strength	6500 psi
Elongation	6.7%
Compression Strength	6800 psi
Tg Ultimate	95°C (203°F)
Hardness, Shore D	80 - 90
VOC g/L	< 50 g/L

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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