

Epoxy.com Product #693

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Epoxy.com Product #693

Methyl Methacrylate (MMA) Coating

For Top Coating All Epoxy.com Methyl Metacrylate Systems

DESCRIPTION

Epoxy.com Product #693 Methyl Methacrylate (MMA) Coating is a 100% reactive, medium viscosity methyl methacrylate resin developed as a topcoat for exterior or interior use with Epoxy.com MMA Systems. Epoxy.com Product #693 Methyl Methacrylate (MMA) Coating is semi-flexible for outside use and will not yellow after curing. Its excellent clarity makes it ideal for sealing color quartz and vinyl flake systems. It is excellent for exterior applications such as parking decks, concrete and steel stairs, ramps, and numerous other applications.

USES

- Parking decks
- Steel and Concrete Stairs
- Ramps

Wooden and Concrete Decks

- Balconies
- Driveways

ADVANTAGES

- Low temperature accelerators are available for positive cures at temperatures from 32° to 55°F.
- Excellent resistance to a wide range of chemicals.
- Easy to apply by conventional painting techniques.
- Clear after curing.
- Suitable for USDA food handling areas.
- Quick recoat time 45 minutes to 1 hour.
- Flexibility makes it ideal for cold temperature, over wood, and outside uses.

CONSIDERATIONS

- Concrete must be dry, free of dirt, waxes, curing agents and other foreign materials.
- Do not store outside in direct sunlight, storage temperature must be < 80°F.
- Substrate must be completely dry.
- On or below grade installation must have an efficient vapor barrier under the slab (minimum 10-15 mil).
- Moisture vapor transmission must be less than 3 pounds per ASTM-F-1869 and less than 80% RH per ASTM F-2170.

COMPOSITION

Epoxy.com Product #693 Methyl Methacrylate (MMA) Coating is a 100% reactive methyl methacrylate resin.

APPLICATION

SURFACE PREPARATON

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in [Epoxy.com Surface Preparation Guide](#).

MIXING/APPLICATION

Epoxy.com Product #693 Methyl Methacrylate (MMA) Sealer and Coating requires the addition of Epoxy.com Product #695 MMA Hardener to start the hardening process. The amount of hardener must be adjusted to the respective surface temperature (see table below). At temperatures below 40 ° F, Epoxy.com Product #696 Accelerator must be used in addition to the amount of hardener used at the 40°F level (about ½ oz by vol./gal. @ 32°F up to 2.0 oz by vol./gal. @ -20°F).

For Epoxy.com Product #693 MMA Resin				
Temp. (°F) of Resin,	Hardener % by	Hardener by Vol.	Pot Life	Harden Time (min.)

Air & Floor Surface	Wt. Based on Wt. of #693 Resin	(oz.) Based on Gallon of #693 Resin	(min.)	
+40	3.0	5.5	Approx. 40	Approx. 60
+50	2.5	4.5	Approx. 30-35	Approx. 50
+60	2.0	3.5	Approx. 25-30	Approx. 45
+70	1.0	2.0	Approx. 20	Approx. 40

Epoxy.com Product #693 Methyl Methacrylate (MMA) Coating must be applied 50-100 sq. ft./gal. (16-32 mils) for safe through-hardening. To avoid yellowness do not apply more than 80 mils (20 sq ft/gal.). For outdoor applications add 1% Epoxy.com Product #693 UV Inhibitor at a rate of 1% by volume. Pigmented topcoats are achieved by adding pigment packs (1 quart per 5 gallons resin) to Epoxy.com Product #693 Methyl Methacrylate (MMA) Coating. Apply material with a notched trowel or squeegee and back roll with a short nap mohair roller.

Broadcast uncured Epoxy.com Product #693 with Epoxy.com Product #77 Broadcast aggregate at a rate of about 1 lb per square foot.

CLEAN UP

Clean skin with soap and water; use MEK, xylene, or clean proprietary epoxy thinners for equipment. Consult Material Safety Data Sheet for safety and health precautions.

COVERAGE

Will yield 16-32 mils at 50-100 square feet per gallon, average.

COLOR SELECTION

Contact Epoxy.com Sales Department

TECHNICAL DATA

PHYSICAL PROPERTIES	
Working Life	20-40 min. will vary with Temp & amount of hardener
Recoat time	45-60 minutes
Solids Content	100%
Mix Ratio	See chart above
Viscosity	220-225 cps approx.
Weight Per Gallon	8.1 lbs.

MAINTENANCE

Epoxy.com Product #693 Methyl Methacrylate (MMA) Sealer and Coating is considered to be a low maintenance flooring solution. Certain textures and environments, however, require specific cleaning with bristled brushes. Due to the thermoplastic character of MMA resins, black marks can occur from fork lifts and tires skidding.

STORAGE

Store in a cool and dry place, below 80°F, out of direct sunlight. Do not store near open flame or food. Shelf life is 6 months in the original unopened containers.

HELPFUL HINTS

Adequate cross ventilation should be provided. Good ventilation during the processing ensures a good cross linking and hardening. Read, understand and follow Material Safety Data Sheets and Application Instructions prior to use.

Use only as directed. If substrate and/or material temperature is above 90°F, DO NOT apply material.

KEEP OUT OF REACH OF CHILDREN

Proper mixing and installation is critical to the optimal success of all product. See [Installation Tips](#), [Techdata](#), & [MSDS](#) for more details on our products. Be sure to contact us with any questions and/or concerns that you have.

For more information please contact:

Epoxy.com

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