

GARD-DECK® PRIMER 112 (MMA)



PRODUCT DESCRIPTION

Primer 112 (MMA) is a two component primer used in the application of the Gard-Deck® Pedestrian and Vehicular deck coating systems.

PRODUCT USE

This primer is a high performance two part poly methyl-methacrylate primer, intended for use on concrete substrates. When mixed with Gard-Deck® hardener it will cure to a hard surface primer for the application of the Gard-Deck® resins.

PACKAGING

Primer 112 (MMA) comes in the following packaging:

10 kg / container

25 kg / container

180 kg / drum

COLOR

Primer 112 (MMA) is clear and translucent without adding pigments

Gard-Deck® hardener: White powder

COVERAGE RATES

Coverage rates depend on the porosity of the substrates and consistency of substrate

Smooth substrates:	0.037 kg/sf ²	US:	.97 gal / 100 sf
Medium substrates:	0.046 kg/sf ²	US:	1.21 gal/ 100 sf
Rough substrates:	0.074 kg/sf ²	US:	1.95 gal/ 100 sf
Aggregate broadcast:	10-15 Lbs per 100 sf		

Contact manufacturer for substrate variations

STORAGE

Product shelf life is 6 months from date of manufacturer. Do not store in direct sunlight. Do not store in temperatures above 77°F (25° C) nor below 32° F (0° C). Store indoors in unopened containers in a well ventilated, cool, dry area and always away from heat, open fire, or points of ignition source.

The information, data and suggestions contained herein are believed to be reliable, based upon our knowledge and experience. For the most up to date information, please visit www.hydro-gard.com. HYDRO-GARD accepts no responsibility for the results obtained through application of this product. HYDRO-GARD reserves the right to update information without notice.

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HANDLING

Keep away from open flames, or sources of ignition. Do not smoke around product. Once mixed with hardener, vapors may exist and can be explosive when mixed in the ambient air. Avoid direct contact with the skin, eyes, and breathing fumes. Always wear personal protective equipment such as: eye protection, gloves and respiratory equipment.

MIXING & CATALYZING

When batch mixing, thoroughly mix the entire container of **Primer 112 (MMA)** resin for 2-3 minutes prior to pouring the mixed resin into a additional container. Add hardener only to mixed resin that can be applied within the specified pot life. Add the pre-measured hardener to the resin component and mix in for approximately 2 minutes using a slow-speed mechanical agitator or mixing stick, then apply to the prepared substrate . For temperatures below 50° F (10° C) hardener will take longer to dissolve and may need additional mixing time. The amount of hardener needed is based on the weight of the resin used , and varies with the ambient temperature as shown in the chart on this data sheet.

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Temp. (°F) of Resin Air & Floor Surface	Hardener by Wt. Based on Wt. Of 112 Primer	Hardener by Vol. (Oz.) Based on Gallon of 112 Primer	Pot Life (min.)	Hardening Time (min.)
+ 32°F	7.0	12.5	Approx. 10-11	Approx. 30
+ 40°F	5.0	9.0	Approx. 8-9	Approx. 30
+ 50°F	4.0	7.5	Approx. 8-9	Approx. 25
+ 60° F	3.0	5.5	Approx. 7-8	Approx. 25
+ 70°F	2.0	3.5	Approx. 8-9	Approx. 20
+ 90°F	1.0*	1.8*	Approx. 7-8	Approx. 20

*Do not use less than 1% hardener by weight or less than 1.8% hardener by volume
Consult with **HYDRO-GARD** Technical Service if performing mix ratio by weight instead of by volume.

Gard-Deck® Primer 112 (MMA) is spread evenly on the surface you are applying the primer to, (no puddles) with notched trowels, and/or squeegees/ or rollers and back rolled with short nap mohair rollers at no less than 100 sq ft/gal on very absorbent surfaces. Two coats may be necessary to get an even, resin rich surface to bond with the next layer. Follow the specific guidelines listed the installation manuals.

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PHYSICAL PROPERTIES

Percent Reactive	100% (Zero VOC)
Working Life	10-15 min
Re-coat Time	Approx 60 min
Viscosity	70-110 cps
Weight per Gallon	8.3 lbs

WORKING TIMES (at 65° F (20° C))

- Pot Life: approx. 10 to 15 minutes
- Rainproof: approx. 30 to 45 minutes
- Resin coat: approx. 45 to 60 minutes
- Fully Cured: approx. 3 to 6 hours

Note: The above approx times vary depending on substrate and ambient conditions. Actual set (cure) times should be established in the actual field conditions. The information noted on this data sheet should be used as a guide and do not reflect field conditions which may vary.

INSTALLATION GUIDELINES

Surface Preparation:

All substrates must be clean, sound, dry, free of grease, oil or other contaminants. If concrete curing compounds were used contact manufacturer for review of compound. Ensure that concrete substrate is fully cured (recommended cure time for new concrete is 28 days). Protect all areas not scheduled to receive primer by all means necessary. Apply Primer 112 (MMA) as described on the coverage chart to all concrete areas to receive Gard-Deck® PMMA resin system. (Shot blasting, Bead blasting or mechanical grinding are all approved methods for concrete preparation)

Primer 112 (MMA) Application:

Once fully mixed according to the mixing instructions the mixed **Primer 112 (MMA)** can be applied to the concrete substrate according to the coverage rates needed for the type of substrate profile. Using a short nap roller apply the **Primer 112 (MMA)** to the substrate. Immediately broadcast 20 - 30 mesh silica sand or quartz into the wet resin coating at a coverage rate of between 15 - 20 lbs of aggregate per 100 sf of resin area. The aggregate will ensure that the 2nd application of resin will achieve a mechanical bond to the **Primer 112 (MMA)**. Depending on coverage rate and surface profile additional aggregate maybe needed to achieve the same result.

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