



# I-Guard MMA PR 01

Low Viscosity Penetrating Primer

I-Guard™

## PRODUCT DATA

## I-Guard MMA PR 01

Low Viscosity Penetrating Primer

I-Guard MMA PR 01 is a reactive, acrylic resin based on methyl methacrylate (MMA). Its low viscosity and excellent strength allow it to penetrate and reinforce concrete substrates. Applying this fast-curing primer to properly prepped concrete is the first step to the installation of all ICS Building Technologies I-Guard MMA flooring systems.

### APPLICATIONS

- Concrete Substrates
- All surfaces that dust when in contact with pedestrian and wheeled traffic
- MMA PR 01 Primer **must** be used consistently to anchor all ICS Building Technologies MMA flooring systems

### FEATURES

- Superb bonding capabilities
- Low viscosity, penetrating
- Fast cure time – under 1 hour
- VOC compliant
- Resists UV rays for indoor or outdoor use
- Repairs seamlessly

### PACKAGING

MMA PR 01 is packaged in 38 lb. pails and 400 lb. drums.

### TYPICAL PROPERTIES

Viscosity: 300-500 cps @ 73° F  
Density: 8.20 lbs / gallon  
Tensile Strength: 3,700 psi  
Tensile Modulus: 450,000 psi  
Pot Life: 15-20 minutes  
Cure Time: 35-60 Minutes  
DOT Classification: Flammable Liquid, Class 3, UN 1866

### STORAGE AND SHELF LIFE

MMA PR 01 should be stored in a cool, dry area out of direct sunlight. The materials should be stored between 65°F and 75°F (18-24°C) for 24 hours prior to use for optimum handling properties. Do not store near open flame or an ignition source. The cans should maintain an airtight seal. The shelf life is a minimum of 6 months in original unopened packaging.

### VOC STATEMENT

#### Do Not Thin This Product

Thinning of this product with a VOC containing solvent is not required or recommended unless otherwise instructed under the product instructions. This product is categorized as a "Floor Coating" and is compliant to the National AIM rule not to contain VOC greater than 400 grams/liter (3.3 lb/gallon) after thinning. Actual VOC may be lower and can be found on the product label or under "TYPICAL PROPERTIES" on the product data sheet.

If this product has a VOC greater than 250 grams/liter (2.1 lb/gallon), it may be unlawful to apply in the following states: California, Delaware, Maryland, New York, New Jersey, Pennsylvania, Virginia, Washington DC and Maine (effective 1/1/2006). **Please check with your local air-quality management district or local authority for lawful use of this product.**

### APPLICATION INSTRUCTIONS

The installation procedures are as specific as possible. Contact ICS Building Technologies to deviate from these procedures when special circumstances arise in the field. Installation procedures for ICS Building Technologies base coat products can be found in their respective Technical Bulletins.

#### Surface Preparation

The substrate must be dry and free of unstable concrete. The substrate must be thoroughly cleaned of oils, grease, wax and any other contaminants and existing coatings. Any floor surface that will receive MMA PR 01 Primer must be carefully cleaned and prepped by either shot blasting or another approved method.

#### Applying Materials

It is strongly recommended to add MMA-CBA concrete bonding agent to the initial coat of primer at 24 fl.oz. per mixed gallon of MMA PR 01 primer. MMA PR 01 must be catalyzed with MMA-PEROXIDE hardener as required by temperature. (See MMA-PEROXIDE DOSING CHART). MMA PR 01 Primer must be applied over properly prepped concrete substrates at a rate of ~100 sq. ft/gallon. Rate may vary depending on the prior substrate surface profile and porosity. MMA PR 01 can be applied using a roller, brush, or notched squeegee at a rate that allows for penetration of the concrete substrate but still maintains a continuous coating on the substrate surface.

If extreme porosity occurs which leads to the primer being absorbed by the substrate, a second coat of MMA PR 01



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Primer must be applied. Do not include MMA-CBA on a second coat of primer. The priming process should be repeated until a continuous coat of cured primer is visible on the surface of the substrate.

Clean, dry, sand may be broadcast into the newly applied primer (not to exceed 1 lb. sand for every 50 sq. ft) in order to provide a less slick surface to walk on during the ensuing installation procedure.

### MMA-PEROXIDE DOSING CHART

Use the amounts of MMA-PEROXIDE per gallon of MMA PR 01 in accordance with temperature as below.

30-44F (0-6C)	8.0-7.0 fl.oz. MMA-PEROXIDE
45-59F (7-15C)	6.5-5.5 fl.oz. MMA-PEROXIDE
60-74F (16-24C)	5.0-4.0 fl.oz. MMA-PEROXIDE
75-89F (25-31C)	4.0-3.0 fl.oz. MMA-PEROXIDE
90-104F (32-40C)	2.0 fl.oz. MMA-PEROXIDE

### Bond Test

A bond test should be conducted to determine the sufficiency of the surface preparation and the bond of the primer to the substrate before application. The bond of the primer to the substrate should be greater than the tensile strength of the substrate itself. There should be fractured aggregate along the entire patty. Additional preparation is needed if only a fine laitance or small amount of concrete is attached.

### Bond Test Instructions

- 1) Mix approximately 6 ounces of MMA PR 01 with coarse (16 – 20 mesh), dry, quartz sand until a wet trowelable mixture is obtained.
- 2) Add ½ ounce of MMA-Peroxide (slightly more or less depending on substrate temperature) and mix thoroughly.
- 3) Apply 4" diameter patties, ½" – ¾" thick, to properly prepared, dust free substrate at strategic areas.
- 4) When cool to touch (40 – 60 minutes); remove patties with a hand held sledgehammer and a 3" mason's chisel. Hold the chisel at approximately 45 – 30 degree angle.
- 5) Upon inspection, the underside of the removed patties should have concrete with fractured aggregate attached.
- 6) If only laitance or fines is attached additional, perhaps more aggressive preparation is required. If the underside of the patty is tacky, this may indicate the presence of a contaminate in the concrete. If additional surface preparation does not resolve this issue, contact ICS Building

Technologies Technical Service department for assistance.

### DISCLAIMER AND EXCLUSION FOR INCOMPATIBLE MATERIALS:

At times, ICS Building Technologies products are used in connection with other coating materials such as primers, finish coats or moisture barriers. If any such materials have not been pre-approved by ICS Building Technologies for use in connection with ICS Building Technologies products, they could cause damage to the appearance and/or performance of the ICS Building Technologies products. Therefore, the use of any such materials in connection with application of ICS Building Technologies products should be discussed with, and pre-approved by, an authorized ICS Building Technologies representative prior to application. The use of any such materials, which prove to be incompatible with ICS Building Technologies products in the absence of such pre-approval by an authorized ICS Building Technologies representative, will void this limited warranty and ICS Building Technologies will not be responsible for any resulting damages

### SAFETY

Material Safety Data Sheets ship with the products. ICS Building Technologies recommends any personnel applying these materials or personnel in areas adjacent to where the materials are being applied should read and understand these prior to mixing and/or applying any material. Read and understand all product labels and MSDS's prior to use. **FOR INDUSTRIAL USE ONLY.**

### TECHNICAL ASSISTANCE

Contact ICS Building Technologies at 1-800-321-2395 for more specific technical information or installation techniques.



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## WARRANTY AND DISCLAIMER

THE TECHNICAL DATA AND OTHER PRINTED INFORMATION FURNISHED IS TRUE AND ACCURATE TO THE BEST OF OUR KNOWLEDGE. THE PRODUCTS ARE WARRANTED PURSUANT TO ACCEPTANCE OF "LIMITED WARRANTY," A COPY OF WHICH CAN BE OBTAINED FROM THE ICS BUILDING TECHNOLOGIES, WHICH IS THE EXCLUSIVE WARRANTY WITH RESPECT TO THE SALE OF THIS PRODUCT. THE MODIFICATION OF ANY COMPONENT OR USES NOT OUTLINED IN THIS BULLETIN NULLIFIES THE WARRANTY UNLESS ADVANCE WRITTEN CONFIRMATION IS OBTAINED FROM THE ICS BUILDING TECHNOLOGIES. NO OTHER WARRANTIES EXPRESSED OR IMPLIED SHALL APPLY. WE ASSUME NO RESPONSIBILITY FOR COVERAGE, PERFORMANCE OR INJURIES RESULTING FROM USE. LIABILITY, IF ANY, SHALL BE TO SUPPLY REPLACEMENT MATERIALS AS SET FORTH IN THE "LIMITED WARRANTY".

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