

# ProCRYL™ Primer

## TECHNICAL DATA SHEET



### DESCRIPTION

**ProCryl MMA Primer** is a low viscosity, 100% reactive methyl methacrylate primer for all **ProREZ MMA Flooring Systems**. **ProCryl MMA Primer** is a reactive methacrylate resin, which hardens rapidly with the addition of **ProCryl MMA Initiator**, even at low temperatures.

### BENEFITS

- ♦ Fast cure (60 min) for rapid recoat
- ♦ Good wetting properties for excellent bonding to concrete
- ♦ VOC compliant (100% solids), meets USGBC LEED requirements
- ♦ Full strength in less than 1 hour
- ♦ Use over wide temperature range – even below freezing

### CONSIDERATIONS

- ♦ Proper surface preparation is key to a successful application- shot blasting using dust-free equipment is preferred.
  - ♦ Substrate must be dry and free of dirt, waxes, curing agents and other foreign materials.
  - ♦ Should not be installed on fresh concrete until maximum shrinkage has occurred (at least 30 days after placement).
  - ♦ 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 lbs per ASTM-F-1869 and less than 80% RH per ASTM F-2170. For higher moisture levels, consult with **ProREZ** Technical Services for recommendations.
  - ♦ Application **MUST** yield a consistent resin-rich layer, re-prime if resin absorbs into substrate. If a second Primer coat is necessary, it is advisable to lightly broadcast with quartz aggregate (30-40 mesh) before curing to provide enhanced mechanical bond. Note: A light broadcast is approx. 5 lbs per 100 sf.
  - ♦ Do NOT perform a “full broadcast to excess” of aggregate into **ProCryl MMA Primer**, lightly broadcast only. Do NOT use as binder resin for troweled mortars and thick slurry toppings.
  - ♦ If air or substrate temperature is below 40°F, **ProCryl LTC** (low temperature catalyst) should be used.
    - if <40°F, add 20 ml of **LTC**
    - if <0°F, add 75 ml of **LTC**
    - if <20°F, add 40 ml of **LTC**
    - if <-15°F, add 110 ml of **LTC**
- Note: Do not install ProCryl Resins below -20°F.**

### SURFACE PREPARATION

Surface preparation is the most critical portion of any successful resinous flooring system. All substrates must be properly prepared as outlined in **ProREZ** “Surface Preparation Guidelines”. In addition, **ProREZ MMA Flooring Systems** require a minimum

#### PROCRYL MMA PRIMER RESIN Mix Ratios, Pot Life and Cure/Temperature

Temp. (°F) of Resin, Air & Floor Surface	Initiator by Volume (oz) per Gallon of Resin	Pot Life (min)	Cure Time (min)
40-50°F	10 vol. oz	Approx. 8	Approx. 30
50-60°F	8 vol. oz	Approx. 8-10	Approx. 30
60-70°F	6 vol. oz	Approx. 8-10	Approx. 30
70-80°F	4 vol. oz	Approx. 8-10	Approx. 30
80-90°F	3 vol. oz*	Approx. 6-8	Approx. 30

\*Do not use less than 3 oz **ProCryl MMA Initiator** by volume unless confirmed with jobsite testing.

Consult with **ProREZ** Technical Services if performing mix ratio by weight instead of by volume, and installations below 40°F.

# ProCryl MMA Primer

surface profile of CSP 4-5, as outlined in ICRI Guideline 310.2-1997, formerly named G-03732 (available from [www.ICRI.org](http://www.ICRI.org)). Work must be performed by trained or experienced contractors or maintenance personnel.

## MIXING AND INSTALLATION

**ProCryl MMA Primer** requires the addition of **ProCryl MMA Initiator** to start the hardening process. The amount of initiator must be adjusted to the respective surface temperature (see table page 1).

**ProCryl MMA Primer** is spread evenly on the surface (no puddles) with notched trowels, and/or squeegees and back rolled with short-medium nap mohair or 3/8" rollers at no less than 100ft<sup>2</sup>/gallon on very absorbent surfaces. **IMPORTANT:** Two coats may be necessary on very porous substrates to get a consistent, resin-rich surface, this is necessary to ensure proper bonding with the next layer. It is recommended to lightly broadcast 20 mesh sand or colored quartz (approximately 1-2 lbs/100 ft<sup>2</sup>) into the wet primer. This will help in the application of the subsequent coating or troweled mortar. Apply next application of resin only after the primer is completely hardened.

## COMPOSITION

**ProCryl MMA Primer** is a 100% reactive methyl methacrylate resin.

## PHYSICAL PROPERTIES

Percent Reactive	100%, zero VOC
Working Life, 50°F-70°F	8-10 minutes, will vary with temp. & amount of Initiator
Recoat Time	45-60 minutes
Viscosity @ 75°F	70-110 cps
Weight per Gallon	8.3 lbs

## COLOR SELECTION

**ProCryl MMA Primer** is supplied clear. **ProREZ Universal Colorants** are available for selected colors. Colorant mix ratio is 1 quart pigment per 5 gallons resin. See **ProREZ MMA Color Card**.

## CLEAN UP

Clean tools and equipment with **ProCryl Cleaner**. Consult Safety Data Sheet for safety and health precautions.

## COVERAGE

100 ft<sup>2</sup>/gallon, minimum thickness. Two coats may be necessary on very porous substrates. Must achieve a consistent resin-rich layer over entire substrate.

## 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. After extended storage: Additives and fillers can separate with storage, materials should be inspected for any visible signs of settlement, polymerization, or paraffin coagulation (clumps, strands). Thoroughly mix pails or drums (use a drum mixer, do not rely on rolling drum on floor) and pour into new containers to inspect resin before use.

## HELPFUL HINTS

Adequate cross ventilation should be provided. Good ventilation during the processing ensures a good cross linking and hardening. Read, understand and follow Safety Data Sheets and Applications Instructions prior to use. Use only as directed. If substrate and/or material temperature is above 90°F, DO NOT apply material.

## TECHNICAL SERVICE

**ProREZ** is available to provide services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. A **ProREZ** Technical Representative is available to assist you. Telephone 877.511.3456 or [www.prorezcoatings.com](http://www.prorezcoatings.com).

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