

PROCRYL™ Binder

TECHNICAL DATA SHEET



DESCRIPTION

ProCryl MMA Binder is a 100% reactive methyl methacrylate high-build binder and bodycoat for self leveling (SL), broadcasted, and troweled mortar (TM) systems. **ProCryl MMA Binder** resin is ideal for decorative troweled and broadcast quartz floors and industrial resurfacers subject to heavy loads and traffic. **ProCryl MMA Systems** are excellent for food processing areas, restaurant kitchens, laboratories, machine shops, chemical storage warehouses, animal research facilities, and numerous other applications. for all **ProREZ MMA Flooring Systems**.

BENEFITS

- ◆ Fast cure (60 min) for rapid recoat
- ◆ VOC compliant (100% reactive)
- ◆ Good flow and leveling resurfacer
- ◆ Can be applied at thickness of 1/16"-1/8"+

COLOR SELECTION

ProCryl MMA Binder is applied clear or pigmented for use with decorative quartz granules or colored polymer flakes. **ProREZ Universal Colorants** are available for selected colors. Colorant mix ratio is 1 quart pigment per 5 gallons resin. See **ProREZ MMA Color Card**.

CONSIDERATIONS

- ◆ **ProCryl MMA Binder** must be mixed with SL filler or blended aggregate and sealed with appropriate MMA topcoat.
 - ◆ **ProCryl MMA Binder** must be applied at minimum thickness of 65 mils (1/16") per coat unless otherwise approved by **ProREZ Technical Service**.
 - ◆ Do not store outside in direct sunlight, storage temperature must be <80°F.
 - ◆ **ProCryl MMA Binder** should never be applied directly to concrete. Always use **ProCryl MMA Primer**.
 - ◆ Materials should be acclimated to the temperature of the application environment.
 - ◆ Humidity must be less than 95%. DO NOT coat unless floor temperature is more than five degrees over the dew point.
 - ◆ 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.**

COMPOSITION

ProCryl MMA Binder is a 100% reactive methyl methacrylate resin.

MIXING AND INSTALLATION

ProCryl MMA Binder requires the addition of **ProCryl MMA Initiator** to start the curing process. The amount of initiator must be adjusted to the respective surface temperature (see table below).

PROCRYL MMA BINDER 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	8 vol. oz	Approx. 20	Approx. 60
50-60°F	6 vol. oz	Approx. 25	Approx. 55
60-70°F	5 vol. oz	Approx. 20	Approx. 40
70-80°F	4 vol. oz	Approx. 17	Approx. 35
80-90°F	3-4 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 Binder

PHYSICAL PROPERTIES

Percent Reactive	100%, zero VOC
Appearance	Viscous Liquid
Viscosity, cps @ 75°F	85-130 cps
Weight per Gallon	8.1 lbs
Working Life, 50°F-70°F	15-25 minutes, will vary w/temp. & amount of Initiator
Cure Rate	30-60 minutes
Recoat Time	60 minutes

ProCryl MMA SL SYSTEMS

ProCryl MMA SL is a slurry topping formulation which provides excellent wear-ability and chemical resistance. It has proven successful in food & beverage processing, manufacturing, pharmaceuticals, and various other applications.

The **SL System** is based on **ProCryl MMA Binder Resin** and **ProFill S/L Filler**. **ProCryl SL** can be smooth or non-skid and provides excellent chemical and abrasion resistance. **ProCryl MMA HBinder** must be sealed with a **ProCryl Topcoat**.

FORMULATION GUIDE

ProCryl SL is formulated with fillers as indicated below. The amount of initiator will vary with temperature.

Typical Batching Size for "SL" Slurry

MATERIAL	% PARTS BY WEIGHT	WEIGHT	VOLUME
ProCryl Binder	26.7	8.2 lbs	1.0 gallon
Self-Leveling Filler	72.0	17.75 lbs	1.5 gallon
Pigment Pack	N/A	N/A	6 vol. oz
Initiator	Varies w/temp.	Varies w/temp.	Varies w/temp.

Yield* 1.5-2.0 gallons slurry

Coverage: 1/16"	36-50 ft ²
1/8"	18-25 ft ²
3/16"	13-18 ft ²

*Note: Yield of mixed slurry will vary depending on mix design used.

APPLICATION

Add initiator to the clear resin, then add dry components and mix thoroughly with a low speed mixer until homogeneous. Add liquid pigment and mix for an additional 1-2 minutes. Apply to primed substrate using a notched squeegee or gauge rake depending upon thickness. Immediately after leveling, loop or spike roll, and then broadcast. It is recommended to broadcast 20-25 mesh or larger aggregate to ensure adequate curing. Aggregate may be natural or colored quartz sand. Polymer flakes may also be broadcasted into the coating.

ProCryl SL must be sealed with either a clear or pigmented MMA topcoat for improved scratch, stain, and chemical resistance.

CLEAN UP

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

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. Materials should be inspected for any visible signs of settlement, polymerization, or paraffin coagulation (clumps, strands). Thoroughly mix pails or drums and pour into new containers to inspect resin before use.

CAUTION

Adequate cross ventilation should be provided. Good ventilation during the application ensures cross-linking and hardening. Read, understand and follow 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.

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.

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