

# ProCRYL™ Topcoat

## TECHNICAL DATA SHEET



### DESCRIPTION

**ProCryl MMA Topcoat** is a 100% reactive, medium viscosity methyl methacrylate resin developed as a sealer over various **ProCryl MMA Binder** systems. **ProCryl MMA Topcoat** is a chemical resistant coating specifically designed for food and beverage plants, dairies, and areas having constantly wet surfaces with food and fat contamination. **ProCryl MMA Topcoat** is suitable for use in numerous other applications, both indoors and outdoors.

### BENEFITS

- ♦ Fast cure (60 min) for rapid recoat and return to service
- ♦ Full strength in 1 hour
- ♦ VOC compliant (100% reactive)
- ♦ Can be installed over wide temperature range – even below freezing

### CONSIDERATIONS

- ♦ Do not store outside in direct sunlight, storage temperature must be < 80°F.
- ♦ Maintain coating thickness at 10-20 mils to minimize yellowing and possible micro cracking.
- ♦ 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 Topcoat** is a 100% reactive methyl methacrylate resin.

### PHYSICAL PROPERTIES

Percent Reactive	100%, zero VOC
Working Life, 50°-70°F	10 - 25 minutes, will vary w/temp. & amount of Initiator
Recoat Time	60 minutes
Viscosity @ 75°F	HT: 52-78 cps; KT: 175-263 cps; UVR: 130-190 cps
Weight per Gallon	8.3 lbs (HT, KT, UVR)
Heat Resistance, dry heat	180°F, constant immersion (KT Topcoat)
Shore D Hardness	HT: 75-80; KT: 65-70; UVR: 25-30

### COLOR SELECTION

**ProCryl MMA Topcoat** is applied clear, with a slightly bluish tint. **ProREZ Universal Colorants** are available for selected colors. Colorant mix ratio is 1 quart pigment per 5 gallons resin. Certain light colors may require 2 quarts per 5 gallons. See **ProREZ MMA Color Card**.

### TOPCOAT GUIDE

#### 1. ProCryl HT Topcoat

- ♦ Extremely abrasion resistant with high compressive strength
- ♦ High resistance to gasoline and oil
- ♦ Good resistance to tire marks
- ♦ For application on substrates with high mechanical strength

#### 2. ProCryl KT Topcoat

- ♦ Very durable with high compressive strength
- ♦ Designed for use in food & beverage processing environments
- ♦ Temperature resistance up to 180°F constant immersion
- ♦ Excellent non-slip resistance in wet areas

#### 3. ProCryl UVR Topcoat

- ♦ Extremely elastic floor coating with high UV resistance
- ♦ Impact-resistant and crack-bridging
- ♦ For high mechanical loads on indoor and outdoor surfaces
- ♦ For application on substrates of low mechanical strength

### MIXING AND INSTALLATION

**ProCryl MMA Topcoat** 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 tables below). In order to achieve the best curing it is necessary to apply **ProCryl MMA Topcoat** with a short-medium nap roller. Coating thickness should be a minimum of 10 mils and maximum of 20 mils (80-160 ft<sup>2</sup>/gallon) over a smooth basecoat, or maximum of 25-30 mils when used as a grout coat over a textured broadcast system, depending on the profile of the base material. 100 ft<sup>2</sup>/gallon is average over a smooth basecoat. If the coating exceeds 20 mils over a smooth basecoat, the topcoat may remain visibly blue or yellow and surface micro cracks are possible. It is best to spread the material with a squeegee to the desired thickness, and then IMMEDIATELY back-roll and cross-roll. This will reduce the occurrence of roller marks in the topcoat.

**IMPORTANT:** Be aware that addition of pigment to the clear resin may slightly speed up the cure process. Use a clean roller cover with each successive batch.

**ProREZ** recommends waiting 1-2 hours between multiple topcoats. Coating work should be continued only after the complete hardening of the previous layer. Tap random areas with a hard edge tool to confirm resin is hard and not "surface dry".

# ProCryl MMA Topcoat

## PROCRYL HT MMA TOPCOAT Mix Ratios, Pot Life and Cure/Temperature

Temp. (°F) of Resin, Air & Floor Surface	Initiator by Volume (oz) per Gallon of Topcoat	Pot Life (min)	Cure Time (min)
40-50°F	3-4 vol. oz	Approx. 13	Approx. 35
50-60°F	3 vol. oz	Approx. 14	Approx. 30
60-70°F	2 vol. oz*	Approx. 13	Approx. 30
70-80°F	1-2 vol. oz*	Approx. 12	Approx. 30
80-90°F	1-2 vol. oz*	Approx. 12	Approx. 30

## PROCRYL KT MMA TOPCOAT Mix Ratios, Pot Life and Cure/Temperature

Temp. (°F) of Resin, Air & Floor Surface	Initiator by Volume (oz) per Gallon of Topcoat	Pot Life (min)	Cure Time (min)
40-50°F	3 vol. oz	Approx. 75	Approx. 80
50-60°F	3 vol. oz	Approx. 35	Approx. 45
60-70°F	2 vol. oz*	Approx. 18	Approx. 35
70-80°F	2 vol. oz*	Approx. 15	Approx. 25
80-90°F	2 vol. oz*	Approx. 15	Approx. 25

## PROCRYL UVR MMA TOPCOAT Mix Ratios, Pot Life and Cure/Temperature

Temp. (°F) of Resin, Air & Floor Surface	Initiator by Volume (oz) per Gallon of Topcoat	Pot Life (min)	Cure Time (min)
40-50°F	7 vol. oz	Approx. 35	Approx. 70
50-60°F	5 vol. oz	Approx. 15	Approx. 40
60-70°F	3 vol. oz*	Approx. 15	Approx. 40
70-80°F	2 vol. oz*	Approx. 13	Approx. 30
80-90°F	2 vol. oz*	Approx. 13	Approx. 30

\*Do not use less than 2 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.

**Important Note:** Yellowing of the resin will occur with excessive thickness or higher amounts of hardener, beginning in the range of 4 vol. oz. It is advised to use lower amounts and allow for extra cure time, particularly with clear resin or very light colors.

### 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](http://www.prorezcoatings.com).

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