



## Pond Armor™

### NOTICES

Metacrylics® products must be applied and installed according to written specifications from the manufacturer. Metacrylics® assumes no liability for failures of this roof/deck system resulting from deviation from manufacturer's written specification, poor workmanship, or delamination of an existing underlying roof/deck membrane. The manufacturer makes no warranty of any kind, express or implied, concerning this roof/deck system, if it is not used according to manufacturer's specifications.

### SOURCES

ASTM and FTMS performed by Underwriters Laboratories, Inc., Cal Coast Laboratories, Inc., Harlan Associates, Inc., State of Calif. Dept. of Transportation (Division of Structures and Engineering Services) Office of Transportation Laboratory, Sacramento, CA; State of Calif. Air Resources Board, Sacramento, CA; State of Calif. Dept. of Health; State of Calif. Bay Area Air Pollution Control Dist.; field experience of construction contractors and California Builder & Engineer. Metacrylics® is not responsible for any changes in the above data due to discovered data or changes in the above tests.

### MANUFACTURER

Metacrylics®  
365 Obata Court  
Gilroy, CA 95020  
Office: (408) 280-7733  
fax: (408) 280-6329

## SPECIFICATIONS

**DESCRIPTION** Water-based acrylic elastomeric mastic for flashing and fabric reinforcement repairs. Non-volatile, highly adhesive, UV resistant, extremely reflective, resistant to thermal shock and moisture.

**USES** Use to repair roof blisters, field seams, drains, scuppers, copping, splits, cracks, fishmouths, perimeter base & curb flashings over wood, metal, concrete, urethane, epoxies, rubber, single-ply, BUR asphalt, emulsion, and other surfaces. A highly elastic, adhesive, flexible waterproofing caulking, especially when used with the Stitch-bond Polyester Fabric reinforcement. Also, used to waterproof and seal all roof penetration details for Metacrylics roof restoration solutions.

**COLOR** White, Gray, and Clear

**ZINC OXIDE:** Metacrylics Acrylic GEL contains no zinc oxide. California Prop. 65 has identified zinc oxide as a hazardous material. No product manufactured by Metacrylics contains zinc oxide. This has been verified by independent testing by Aquifer Sciences, Inc.

**TITLE 24:** Compliant. Cool Roof Rating Council testing: C-1371 Solar Reflectance 0.87 and C-1371 Thermal Emittance 0.90. CRRC Seller ID No: 0660.

**LEED POINTS:** Available for heat island affect.

**USGBC:** U.S. Green Building Council member

**ICC-ES:** ICC-Evaluation Services, Inc. listed Report No. 4785 complying with U.S. Building Codes.

**UL Classified:** Quality Control Agency and Class A Fire and Wind Uplift rated.

**WEATHERING:** 2,000 hours weatherometer - no cracking, crazing, or erosion, slight chalking. ASTM D638

**TEMPERATURE CYCLING AND PENETRATION:** Tests conducted in accordance with the "Acceptance Criteria for Special Roofing Systems" as published by the International Conference of Building Officials (ICC-ES). Results: PASS. Samples averaged 1.626 before testing. Samples averaged 1.610 after being subjected to the Weatherometer. The change in thickness was less than 1%. Examination of the samples after testing showed no evidence of tearing or cracking of the protective coating.

\*Temperature Cycling and Penetration Testing: 25 continuous cycles of 1 hour of water exposure at room temperature prior to 6 hours at -40° F, 2 hours at 70° F, 14 hours at 180° F and 1 hour at 70° F. Spray nozzles delivered 6 in. of water per hour at a temperature of 40° F to 60° F. At the conclusion of the 25 cycles the specimens were examined.

**FLASHPOINT** No flash at 200° F (water-based). ASTM 1310, Tag Open Cup

**FLEXIBILITY** Low Temperature Flexibility: pass 1" :-40° F ASTM C836

**TENSILE STRENGTH** \*Includes Metacrylics Stitchbonded polyester fabric (10 mils)

**STRENGTH:** 156 PSI (81 mils\*) Strength at break 1,914 PSI 74o F ASTM D412 (10 mils)

**ELONGATION:** 149% ave(81 mils\*) Strength at break 3,540 PSI, 0o F ASTM D412

**HARDNESS** Shore A 41 ASTM D-676 (8 days cure + 4 hours 120° F)

**PERMEABILITY** 0.01 milligrams water loss. Payne Permeability cups.

**PEEL ADHESION** Concrete: 6.3 average lbs./linear inch ASTM C836

**PERMEABILITY:** 0.016 Perms ASTM D1653 (81 mils dry film thickness) (Water Vapor Transmission)

**WIND UPLIFT:** 105 PSF Section 6 of ANSI A58.1, Min. Design Loads for Building and Other Structures

**FIRE RESISTANCE:** Class A ASTM E-108 UL Standard 790 (1,400° F Flame & Wind Velocity 1,050 ft./minute)

**CHEMICAL RESISTANCE**

- Gasoline - some softening and spotting
- Lubricating Oil - some spotting
- 1% Sodium hydroxide alkali (no effect)
- Diesel (no effect)
- 1% Hydrochloric acid (no effect)
- Stoklard solvent (no effect)
- Sodium chloride/salt (no effect)
- Boric acid (no effect)
- Petroleum ether or naphtha (no effect)

**SAYBOLT FUROL:** At 122° F is 265 Sec. AASHTOT 59

**DEMULSIBILITY:** No reaction AASHTOT 59

**TOXICITY:** Not for use with potable water

**PARTICLE CHARGE:** Negative

**WEIGHT:** 11.5 lbs./gallon

**VOC (VOLATILE ORGANIC CONTENT):** 0.14 grams/liter

**SOLIDS CONTENT (by weight):** 67.31%

## APPLICATION

### SURFACE PREPARATION

Surfaces should be clean, dry, free of dust, dirt and oily residues. Remove loose rust from metal, and wipe new galvanized metal with acidic acid solution prior to application. Metacrylics Primer is recommended for all surfaces. New concrete must be fully cured. New glazed asphalt and torch down single-ply assemblies should wait 6 months or more before application.

### APPLICATION & COVERAGE RATES

1. Using a trowel, putty knife, a paintbrush, or rubber glove, apply a smooth layer of GEL over the area to be reinforced or repaired. Be sure to overlap the field area (GEL and Fabric) at least 2" and 2" up the penetration, curb, or wall.
2. Embed a layer of Fabric into the Gel. Press Fabric firmly into the Gel.
3. Apply a smooth layer of Gel over the Fabric. Allow 12 to 24 hours dry time.

\*TIPS: Before 3-Coursing, mask off the surrounding area with masking tape for a clean line. When finished 3-Coursing and while the Gel is still wet, run a paint brush over the wet Gel to remove any applicator lines or ridges. Cold temperatures slow down the drying times. Start early, stop early! Application in hot temperatures should be avoided or blistering of the coating may occur.

**THINNING** Cannot be thinned

**CLEAN-UP** Clean tools and equipment with water . Cured material may be removed with Amylacetate, hand cleaner, or lacquer thinner. Do not use these materials (except hand cleaner) on bare skin.

**STORAGE** Store in areas where temperature remains above 40°F. Reseal opened containers. If contents skin, remove surface skin and use immediately.

## IMPORTANT APPLICATION INFORMATION

**DO NOT APPLY** if rain or freezing weather is imminent within 24 hours following application, or during fog or drizzle. This product is water-based and could wash off if not fully cured.

**KEEP AWAY FROM CHILDREN.**

**DO NOT APPLY** when temperatures are consistently below 40° F. The Acrylic Gel dries slowly when temperatures are below 55° F. Areas shaded from sunlight dry very slowly. Seventy-two hours or more may be required for proper curing.

**DO NOT THIN** or add solvents.

**PROTECT MATERIALS** from freezing and extreme heat.

**CAUTION!** Wet acrylic is extremely slippery when stepped on. Use a safety rope around you on sloped surfaces.