



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

Presented Above Are: 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

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SPECIFICATIONS

DESCRIPTION Color, water-based acrylic elastomeric coating. Non-volatile, highly adhesive, UV resistant, reflective, protective coating for almost any surface.

USES For use as a protective coating over BUR Asphalt, T&G, Granulated Cap-sheet, Rolled Roofing, Metal, Concrete, Wood, Foam, EPDM, TPO, PVC and Stucco surfaces. When applied with Metacrylics Primer, Base, and Polyester fabric, this product is recommended for all roofs and decks. Other uses include exterior and below grade waterproofing.

COLORS 20 colors available.

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

TEMPERATURE CYCLING AND PENETRATION: 2,000 hours weatherometer/no cracking, crazing, or erosion, slight chalking. 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 74... F ASTM D412 (10 mils) Elongation: 149% ave(81 mils*) Strength at break 3,540 psi , 0... F ASTM D412

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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 chloridesalt (no effect)
- Boric acid (no effect)
- Petroleum ether or naptha (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: 12.1 lbs./gallon

VOC (VOLATILE ORGANIC CONTENT): 27.5 grams/liter

SOLIDS CONTENT (by weight): 68.4%

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

Apply 2 coats of COLOR@2 gal/100ft² per application (total 4 gallons/100ft²) using a .035 - .039 spray tip. The application rates vary depending on the Metacrylics solution being installed. Please review Manufactures application requirements to verify installation requirements. Allow 12-24 hours between applications. *Hints: Don't spray on windy days! Use barricades around the job. Visqueen all skylights, etc. not to be coated. Be sure to have 1/2 a barrel of water to flush the pump and hose when finished. Be sure to have extra tips and TSL Throat Seal Liquid. Carefully pour a 1/4" layer of water over the drum of Acrylic COLOR to prevent skinning over.*

ROLLER APPLICATION AND COVERAGE RATES Apply 3 coats @ 1-1/3 gals /100 sq. ft. per application (total of 4 gals/100 sq. ft.) allow 12-24 hrs between applications. The application rates vary depending on the Metacrylics solution being installed. Please review Manufactures application requirements to verify installation requirements.

NON-SKID APPLICATION Sand may be gently broadcasted over the wet acrylic COLOR, or mix 1/2 gallon of #30 mesh sand, rubber granules, etc. with 2-1/2 gallons of acrylic COLOR using a stick or electric drill with mixing paddle, add more or less sand to desired consistency. Apply with a texture roller or texture gun.

Hints: Allow 24 hours drying time or dry enough to walk on. 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. If any Acrylic COLOR is left over, apply additional coats until all product is used. Four gallons per 100 sq. ft. is necessary to prevent delamination in ponding areas and to maintain superior performance under UV and freezing conditions.

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. Prior to use agitate for 2-3 minutes by hand or machine. Reseal opened containers. If contents skin, remove skin, agitate, use immediately. If the product has been stored for a months (or years), remove any surface skin that may have developed, stir, and immediately use.

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 coating 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.

ALWAYS STIR the Metacrylics® Acrylic Color before any application.