

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

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

SPECIFICATIONS

DESCRIPTION: WHITE, water-based acrylic elastomeric coating with improved resistance to early light rain, mist, and high humidity. Non-volatile, highly adhesive, UV resistant, reflective, protective coating for almost any surface.

USES: For use as a reflective protective coating over BUR Asphalt, T&G, Granulated Capsheet, 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.

- Skin formation through changes in pH
- Acrylic White QS formulations have a 20 minute film set time vs 1 hour or more for other coating products independent of ambient humidity Advantages of Acrylic White QS
- Improved resistance to early light rain, mist, and high humidity.
- Adhesion to various roofing substrates
- Very high DPUR
- Surface Cross-Linking Technology
- Hail resistant
- Very high water resistance -with the advantages of Quick Set Technology
- Washout resistance after just a few minutes independent of ambient humidity
- Crack Bridging

COLOR: White

ZINC OXIDE: Metacrylics Acrylic White 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 ICC-ES and UL Laboratories, our quality control agency.

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*) Strength₂ 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

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
1% Sodium hydroxide alkali (no effect)
1% Hydrochloric acid (no effect)
Sodium chloride/salt (no effect)
Petroleum ether or naphtha (no effect)

Lubricating Oil: some spotting
Diesel (no effect)
Stoklard solvent (no effect)
Boric acid (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.

SPRAY APPLICATION & COVERAGE RATES: Apply 2 coats of ACRYLIC WHITE @ 1.5 gallons/100 sq. ft. per application (total 3 gallons/100 sq.ft.) using a .035 - .039 spray tip. Allow a full 24 hours or longer if necessary based on local weather conditions in order to prevent blistering. Metacrylics offers various roofing and walking deck systems which have different application requirements. So verify the Manufactures specifications for the system being installed. *Hints: Don't spray on windy days! Use barricades around the job. Visqueen all skylights 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.*

ROLLER APPLICATION AND COVERAGE RATES: Apply 2-3 coats @ 1-1.5 gals /100 sq. ft. per application (total of 3 gals/100 sq. ft.) Allow a full 24 hours or longer if necessary based on local weather conditions in order to prevent blistering. Metacrylics offers various roofing and walking deck systems which have different application requirements. So verify the Manufactures specifications for the system being installed.

NON-SKID APPLICATION: Sand may be gently broadcasted over the wet acrylic WHITE, or mix 1/2 gallon of #30 mesh sand, rubber granules, etc. with 2.5 gallons of ACRYLIC WHITE 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 a full 24 hours or longer if necessary based on local weather conditions in order to prevent blistering. 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 WHITE 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.

THINNING Thin with water if necessary.

STORAGE Store in areas where temperature remains above 40oF. 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.