
ACRYLIC GEL

Elastomeric Roof Mastic

DESCRIPTION: White or Gray, water-based acrylic elastomeric mastic for flashing and fabric reinforcement. Non-volatile, highly adhesive, UV resistant, reflective, resistant to thermal shock and moisture.

USES: Use to repair roof blisters, splits, cracks, fishmouths, perimeter base & curb flashings on 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 Stitchbond Polyester Fabric reinforcement.

COLOR: White or Gray. Other colors available by special order: Storm Cloud, Beige, Desert Sand, Brick Red, and 60 Custom colors.

REFLECTANCE: 98.9% average. FTS 141 6121, ASTM E313

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 (ICBO). 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 & Penetration Testing: 25 continuous cycles, each cycle consisted 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.

FLASH POINT: No Flash at 200° F (water-based). ASTM 1310, Tag Open Cup

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

TENSILE: *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

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

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

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

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 (naptha) - no effect

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

DEMULSIBILITY: No reaction AASHTOT 59

PARTICLE CHARGE: Negative

TOXICITY: Not for use with potable water

WEIGHT: 12.1 lbs./gallon

VOC (Volatile Organic Content): 0.14 grams/liter

SOLIDS CONTENT (by weight): 67.31%

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 and COVERAGE RATES:

1. Using a trowel, putty knife, or rubber glove, apply a smooth layer of GEL over the area to be reinforced or repaired. Be sure to overlap the field area (Base 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 Base 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. Always use a safety rope on sloped surfaces.

STIR the Metacrylics Primer before any application! The Base AND Acrylic Colors normally don't need to be stirred before application. Do not stir the Gel.

=====NOTICE=====

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.

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SOURCES FOR THE INFORMATION 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.