

Rolling Roofing, Capsheet, Single-Plys, Concrete, Decks, Urethane (Any Smooth Surface): Clean surfaces which will receive the METACRYLICS by broom, vacuum, blower, or pressure washer to remove dust, dirt, loose aggregate, and peeling or delaminating deposits. Surfaces should be structurally sound, free of voids and protrusions. When the substrate is ready, apply 1 gallon/100 sf of ACRYLIC PRIMER (less when the surface is very smooth). Allow 1-24 hours drying time. Splits and blisters should be trimmed, nailed down, then 3-coursed with Gel and Polyester.

Tar and Gravel: Remove all loose gravel and debris. Spud off buildups of asphalt with spud bar.

Option A:

Install DENS-DECK over the prepared gravel surface described in the Surface Preparation: NEW CONSTRUCTION and DECKS above.

Option B:

Apply 1.5 gals./100 sf of ACRYLIC PRIMER. Allow 1-24 hours drying time. Splits and blisters should be trimmed, nailed down, then 3-coursed with Gel and Polyester. Apply water-based CLAY EMULSION @ 12 gallons/100 sf. Apply enough CLAY EMULSION to prevent tenting. Allow 3-4 days drying time. (Note: If the CLAY EMULSION is too tacky to walk on, mix 1 part WHITE TOPCOAT with 1 part water and apply a thin coat over the CLAY EMULSION.)

Membrane Application:

(1) When first starting the job, pour a very small amount of ACRYLIC BASE out and spread it 40" wide and 2 to 3 ft. long. Apply ACRYLIC BASE @ 3 gals./100 sf. (For Gravel Roofs resurfaced with CLAY EMULSION apply ACRYLIC BASE @ 5 gals./100 sf.)

(2) Embed the 40" STITCHBOND POLYESTER FABRIC into the fresh ACRYLIC BASE, removing any wrinkles by pulling on the POLYESTER FAB-

RIC. Avoid tenting (trapping nails or rocks underneath the POLYESTER). The POLYESTER should conform naturally to the deck surface. Press the POLYESTER into the ACRYLIC BASE with the roller or broom. Be sure POLYESTER edges are firmly pressed down.

(3) Immediately apply a cover coat of ACRYLIC BASE at the rate of 2 gallons per 100 sq. ft. over the POLYESTER. Overlap side laps and end laps 3" (all 40" width rolls have a red line for guidance). Press all sidelaps down firmly with the roller (or broom). Allow 24-48 hours drying time.

(Important Note: Start early, stop early! The ACRYLIC BASE dries quickly on warm days, don't apply too much at one time before laying out the POLYESTER. Keep the applicators in the shade when not in use, or put the applicator in a pail or tub and secure the lid.)

3-Course Reinforcement:

(1) Using a rubber glove, apply a smooth 1/4" layer of ACRYLIC GEL over the area to be reinforced or repaired. Overlap the field area (ACRYLIC BASE and POLYESTER) at least 2" and go 2" up on the penetrations, curbs, or walls.

(2) Immediately embed one layer of 6" POLYESTER into the GEL. Press the POLYESTER firmly into the GEL with the glove.

(3) Immediately apply a smooth 1/4" layer of GEL over the fabric. Feather the GEL with a soft paint brush while still wet to remove unsightly glove striations. Allow 24 hours drying time.

Application of ACRYLIC TOPCOAT: (1) Apply 1st application of TOPCOAT @ 1 1/2 gals./100 sf. Allow 4-24 hours drying time.

(2) Apply 2nd application of ACRYLIC TOPCOAT @ 1 1/2 gals./100 sq.ft. 4-24 drying time.

Non-Skid Surfacing: Broadcast 30 mesh silica-sand gently over the wet TOPCOAT. Allow 4-24 hours drying time before sweeping off any unadhered silica-sand.

(3) Apply 3rd application of ACRYLIC TOPCOAT (or CLEAR STONE COAT) @ 1 1/2 gals./100 sq. ft. Allow 12-24 hours drying time.

(4) [Optional] Mfr. strongly recommends that all decks be immediately coated with CLEAR STONE COAT @ 1/2 gallon/100 sq. ft. which will add gloss and make cleanup from foot traffic much easier. Allow 1-4 hours cure time.

Safety Warnings: All METACRYLICS products are water-based. Consult container label for handling, use, and storage instructions.

6. AVAILABILITY AND COST

METACRYLICS is manufactured in San Jose, CA and available throughout the U.S. For more information call (408) 280-7733.

7. WARRANTY

METACRYLICS roofs/decks receive a Lifetime renewable 10 year warranty when installed according to manufacturer's written instructions. Renewal of the warranty requires: (1) Cleaning (2) Application of ACRYLIC PRIMER @ 1 gal/100 sf (3) Application of ACRYLIC TOPCOAT @ 4 gals/100 sf.

8. MAINTENANCE

No special care required other than annual inspection and cleaning of the drains and gutters.

9. TECHNICAL SERVICES

For specific assistance or custom specifications call (408) 280-7733.

10. FILING SYSTEMS

• SPEC-DATA® II

1. PRODUCT NAME

METACRYLICS ACRYLIC POLYESTER SEAMLESS ROOF/DECK SYSTEM

2. MANUFACTURER

Metacrylics
142 N. 27th Street
San Jose, CA 95116
Phone: (408) 280-7733
FAX: (408) 280-6329

3. PRODUCT DESCRIPTION

METACRYLICS ACRYLIC PRIMER
METACRYLICS ACRYLIC BASE
METACRYLICS ACRYLIC GEL
METACRYLICS WHITE TOPCOAT
METACRYLICS COLOR TOPCOAT
METACRYLICS CLEAR STONE COAT
METACRYLICS POLYESTER #272

Basic Uses: The METACRYLICS ACRYLIC POLYESTER SEAMLESS ROOFING is used directly over new and existing roofs and decks. A high performance stitchbonded polyester fabric is sandwiched between 5 layers of high grade elastomeric acrylics.

The end result is a smooth seamless membrane 81 mils (0.081") thick that has 105 PSF (2,150 kilos/dm²) wind uplift rating from Underwriter's Laboratories, making it ideal for high wind areas (hurricane force).

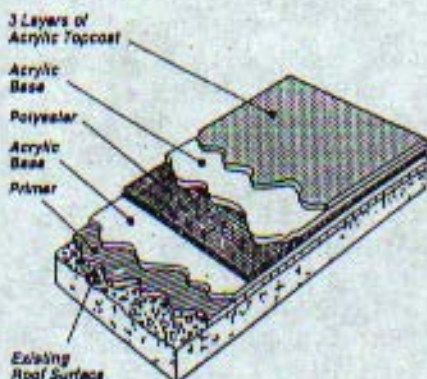
A safe water-based roof system that is easily installed by professionals or amateurs. Instructional video tapes are available from manufacturer or local dealers.

Whenever a Class A fire rating is required over new construction, Georgia-Pacific's DENS-DECK is attached with approved fasteners.

Metacrylics may be applied directly to plywood, concrete, metal, Dens-Deck, or to existing Built-Up Roofing, Tar and Gravel, Capsheet, Rolled Roofing, Decks, Mobile Homes, Urethane Foam, and much more.

The ACRYLIC GEL and STITCHBOND POLYESTER FABRIC (3-Coursing) are used to permanently reinforce perimeter curb flashings, penetrations, vents, skylights, chimneys, pitch pockets, and retrofitted parapet supports because of its elastomeric qualities of 70% elongation at break @ 74°F (23.3°C) and 3,540 psi (248,897 grams/centimeter²) @ 0°F (-17.7°C).

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Limitations: Do not apply to frozen or wet surfaces. Do not apply during temperatures consistently below 40°F (4.4°C). Protect materials from freezing. Do not apply products if rain is imminent within 24 hours, or during fog or drizzle. Do not thin or add solvents. Protect materials from freezing and extreme heat.

Composition and Materials: METACRYLICS BASE, TOPCOATS, and GEL are high solids water-based acrylic products manufactured with expensive high grade acrylic monomers and titanium. No plasticizers or extenders are used. The finished membrane is a minimum of 81 mils (.081") thick.

Quality Assurance Program: Metacrylics Quality Assurance Program is regulated by Underwriters Laboratories, Inc. which includes regularly sampling and testing of products.

Sizes and Shapes: Primer, Base, White, and Topcoats are available in 2 and 5 gallon (7.57 liter and 18.92 liter) pails and 55 gallon (208.17 liter) steel drums. The Gel is only available in pails.

The Stitchbond Polyester fabric is available in 40" (101 cm) widths 10 SQ 1,080 sf (100.3 m²), 3 SQ 324 sf (33.4 m²), and 1 SQ 108 sf (10 m²) rolls and 160' (48.8 m) length roll widths of: 20" (50 cm), 12" (30 cm), 9" (23 cm), 6" (15 cm), 4" (10 cm), and 2" (5 cm).

4. TECHNICAL DATA

Fire Resistance Rating: Class A (UL 790) rating by Underwriters Laboratories, Inc. NER-QA403 (File No. R11260). ICBO Evaluation Report #4785.

Metacrylics Seamless Roofing:
Dry Film Thickness ... 81 Mil (.081")
Tensile Strength, at break 74° F (23° C)=1,914 psi (134,573g/cm²)
Tensile Strength at break 0° F (-18° C)=3,540 psi (248,897g/cm²)

SPEC DATA

This Spec-Data sheet conforms to editorial style prescribed by The Construction Specifications Institute. The manufacturer is responsible for technical accuracy.

Elongation at break 70%
Water Vapor Transmission 0.016 Perms
Luminous Reflectance 98.9%
Weatherometer 2,000 Hours
Wind Uplift Resistance 105 PSF (2,150 kilos/dm²)
Fire Rating (UL 790) Class A
Flexibility, 1" Mandrel -40°F (-40°C)
Hardness, Shore A 41
Peel Adhesion concentrate 6.3 lbs/L (1.1 kilograms/lineal cm)
Elongation 147%
Hydrocarbons, volatile organic material ... 9 gm/liter (9.5 gm/quart)
Flash Point None

Chemical Resistance:

1% Sodium Hydroxide, (alkali) No effect
Sodium Chloride, (salt) No effect
1% Hydrochloric Acid No effect
Petroleum Ether, naphtha No effect
Stoklard Solvent No effect

Solids Content, % by Wt.:

Acrylic White 67%
Acrylic Base 65%
Acrylic Gel 67%
Acrylic Primer 26%
Acrylic Clear Stone Coat 30%

Stitchbond Polyester # T272:

Weight 3 oz./yd² (2.7 oz./m²)
Tensile (ASTM D 1682) 57.1 lbs
Elongation (D 1682) 61.7%
Mullen Burst (D 3786) 176.8 lbs.
Trapezoid (D 1117) 16.1 lbs.

5. INSTALLATION

Storage: Protect materials from freezing and extreme heat.

Surface Preparation:

New Construction and Decks: To achieve a Class A Fire Rating over plywood or any combustible surface, install 1/4" DENS-DECK with 1 fastener per 2 sq. ft. for a 105 psf wind uplift rating. If no fire rating is required METACRYLICS may be installed directly on the plywood. If DENS-DECK is not used, then tape all plywood seams prior to installation of the METACRYLICS SYSTEM.

