



Duramastic

DESCRIPTION

Elastomeric acrylic paste-like consistency mastic, manufactured with acrylic resins, selected pigments, synthetic fiber reinforcements and high-quality chemical composites designed to be worked into vertical seams, around flashings drain and protrusions.

PROPERTIES:

Physical Property	Test Method (ASTM)	Value
Viscosity, cps	ASTM D-2196	110000 + 10000
Density gr/ml (lb/gal)	ASTM D-1475	1.46+ 0.03 (12.18 + 0.25)
Appearance	INTERNAL	Paste-like
Type	INTERNAL	Elastomeric acrylic sealer
Color	INTERNAL	White
Solids by weight, %	ASTM D-1644	72 +/- 2
Solids by Volume, %	ASTM D-1644	60 +/- 2.0
Elongation, %	ASTM D-412	500 min
Dying time for water resistance	ASTM D-1640	6 hours
Total Dryingtime	ASTM D-1640	7 days
Accelerated weathering	ASTM G151 & G154	No deleterious effects after 2000 hrs
Tensile strength lb/in2	ASTM D 412	250 min
Low Temperature Flexibility	ASTM D 522	Pass
Fungus Resistanc	ASTM G-21	Pass

ADVANTAGES

- Excellent resistance to weathering
- Excellent for fastening screws and for details on metal roofs
- Highly flexible, rubber like product offers long lasting protection
- Can be used to fill-in small cracks and imperfections
- High resistance to mold and mildew

SUBSTRATES - OVER WHAT

- METAL
- SPRAYED POLYURETHANE FOAM (SPF)
- CONCRETE
- MODIFIED BITUMEN MEMBRANES (GRANULATED FINISH) (*)
- ACRYLIC ROOF COATINGS
- ASPHALT BUILT-UP SURFACES (*)
- ASPHALTIC ROOF SYSTEMS (*)
- STUCCO

• MORTARS

(*) Note: Use the THERMOTEK BLEED BLOCK PRIMER to avoid yellowing/staining of the product caused by this type of substrate.

APPLICATION TOOLS

3" paint brush, trowel and/or putty knife.

MIXING

Not applicable; this product is ready to use.

APPLICATION PROCESS

SURFACE PREPARATION

ALL ROOFS: If some areas hold excessive ponding water, they must be brought into conformance by installing proper drains. Roof surface must be clean, dry and free of any oil, grease, dirt and any other contaminants that could interfere with the proper adhesion to the substrate; wash with clean water using a power washing machine (1 ft. away). Areas of algae, mildew or fungus on the roof membrane should be treated with a solution of 1-part household bleach and 3-parts water followed by rinsing with clean water using a power washer. If the roof contains grease spills, use mineral spirits and mop thoroughly. Any existing coating must be checked for good adhesion. Any loosely adhered coating must be removed by mechanical means such as wire brushing, sand blasting or scraping. Remove all silicone caulks and sealants; elastomeric acrylic coatings and primers will not bond properly to any silicone product. Remove and replace deteriorated pipe boots and other flexible flashing materials. Ensure the substrate is structurally sound, fully cured and dry. Perform adhesion test(s) (also known as Pull Test(s)) on the primed substrate.

Pull Test(s): With a brush, apply a generous coat of the THERMOTEK COATING to the surface, a minimum of 6" (15 cm) long and 3" (7.5 cm) wide. While the coating is still wet, embed a minimum of 1"-2" (2.5 cm - 5 cm) wide strip of THERMOTEK roofing mesh while leaving at least 3" of the length of the mesh uncoated. Apply a second coat of the roof coating on top of the embedded strip section. Allow 48 hours to dry before trying the pull test. Pull the uncoated end of the mesh straight up. If the pull test exhibits good adhesion, continue with the application. If the test



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shows poor adhesion, redo the preparation and check that the correct system is being used. The number of Pull Tests required will be one for every 1000 sq. ft, with a minimum of 2 tests per roof.

METAL ROOFS: All rusted areas shall be mechanically abraded and corroded/deteriorated metal shall be replaced. A rust inhibitor should be used before applying THERMOTEK METAL PRIMER.

MODIFIED BITUMEN / ASPHALT BUILT UP ROOFS: Remove all the loose granules/sand with a brush and dispose of the waste (vacuum is an option for waste removal). New asphalt shall be exposed to ambient conditions for 90 to 120 days before coating. To reduce yellowing of the topcoat, use the THERMOTEK BLEED BLOCK PRIMER over the entire roof surface before applying THERMOTEK COATING. Refer to the THERMOTEK Application Guides for more detailed installation instructions specific to the substrate you are coating.

PRIMING AND CRITICAL POINTS

Apply the appropriate primer to the substrate, with a brush, roller or conventional airless spray equipment.

Address all roof details, flashing areas, drip edges, cracks control joints, and all other critical points by sealing/reinforcing them with THERMOTEK DURAMASTIC, THERMOTEK MESH and THERMOTEK COATING.

CRACKS AND SEAMS: Apply a layer of THERMOTEK DURAMASTIC using a brush, trowel or putty knife to cover all the areas that need reinforcement. The mastic should extend at least 1" on each side of the crack. Let the mastic dry for 3-5 hours, weather dependent. Then apply a layer

of THERMOTEK COATING and embed an appropriately sized piece of THERMOTEK MESH on top. Next, apply a layer of coating, fully saturating the mesh, feathering the coating at least 2"-3" (5 cm to 7.5 cm) past the edge of the mesh while eliminating air pockets and gaps. Allow the completed patch 6-12 hours to dry prior to proceeding to the final coating step. This process applies for cracks smaller than 3/8". For cracks bigger than 3/8" you need to repair the crack with backer rod and an appropriate sealant. **EXTERNAL ACCESSORIES:** Remove the accessory from the roof surface. Apply THERMOTEK DURAMASTIC to the bottom of the accessory using a brush, trowel or putty knife. Replace/refasten the accessory onto roof surface. Apply a layer of THERMOTEK DURAMASTIC onto the top edges of the accessory. Let the mastic dry for 3-5

hours, weather dependent. Then apply a layer of THERMOTEK COATING and embed an appropriately sized piece of THERMOTEK MESH on top. Next, apply a layer of roof coating, fully saturating the mesh, feathering the coating at least 2"-3" (5 cm to 7.5 cm) past the edge of the mesh while eliminating air pockets and gaps. Allow the completed patch 6-12 hours to dry prior to proceeding to the final coating step.

YIELD

Depends on thickness

CURING TIME

3-5 hour per coat. High humidity, thickness and/or low temperatures will result in longer curing times.

PACKAGING

Pail 3.0 GAL (11.35 L), Pail 5.0 GAL (18.93 L)

STORAGE

The storage temperature should be greater than 41 °F (5 °C) and below 113 °F (45 °C). Keep only in the original container in a cool, well-ventilated and dry area, protected from the elements. Keep container tightly closed when not in use. Keep from freezing. Keep away from sources of ignition; no smoking. Protect from direct sunlight.

SHELF LIFE

Shelf life is 2 years.

FOR BEST PERFORMANCE

Do not apply at temperatures below 50 °F (10 °C) or above 104 °F (40 °C), or if cold weather, rain or fog is expected within 48 hours of application. Use the THERMOTEK BLEED BLOCK PRIMER over asphaltic systems to prevent staining/yellowing of the final coating. Do not use in swimming pools or other submerged conditions where the coating will be exposed to strong oxidizers. For improved energy savings and extended protection, the roof should be cleaned yearly with a pressure washer (1500 PSI - 1ft away) using detergent such as TSP and water only.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
Master Builders Solutions Construction Systems US LLC • 889 Valley Park Drive
Shakopee, MN 55379 USA • Customer Service 1 (800) 433-9517 Technical
Service • 1 (800) 243-6739 • www.thermotekgroup.com

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