



Primer

DESCRIPTION

Manufactured with a water-based, high quality styrene-acrylic resin with excellent substrate adhesion. Use to prime and seal a wide variety of substrates. The THERMOTEK® PRIMER can be top coated with any coatings system but is particularly effective under THERMOTEK® roofing systems.

PROPERTIES:

Physical Property	Test Method (ASTM)	Value
Viscosity, cps	ASTM D-2196	20 - 500
Density gr/ml (lb/gal)	ASTM D-1475	8.5 +/- 0.5
Appearance	INTERNAL	LIQUID
Type	INTERNAL	Water based product
Color	INTERNAL	Aqueous White
Solids by weight, %	ASTM D-1644	66 +/- 2
Dying time for water resistance	ASTM D-1640	4 hours *Required time will increase depending on humidity
Total Dryingtime	ASTM D-1640	6 Hours

ADVANTAGES

- Creates a permanently flexible and highly durable substrate seal
- Excellent alkali and corrosion resistance
- Blister and stain resistant
- Easy one-step application

SUBSTRATES - OVER WHAT

- METAL
- SPRAYED POLYURETHANE FOAM (SPF)
- CONCRETE
- ACRYLIC ROOF COATINGS
- STUCCO
- MORTARS

APPLICATION TOOLS

3" paint brush, 3/8" nap woven roller and/or airless spray equipment (2000-3000 PSI, .041 Tip Size, 1-3GPM).

MIXING

Mix for 3-5 min prior to use, by hand or with a mechanical mixer.

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 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).



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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

SMOOTH SURFACES: (i.e.: metal roofs): Dilute THERMOTEK PRIMER with water at a ratio of 1:3 (primer:water). Using a brush, roller or airless spray equipment, apply one (1) coat at a rate of 0.5 gal/100 sq. ft.

ROUGH SURFACES: (i.e.: concrete): DO NOT DILUTE. Using a brush, roller or airless spray equipment, apply one (1) coat of THERMOTEK PRIMER at a rate of 1.0 gal/100 sq. ft.

Spray equipment must be capable of 1,000 psi (6,980 kPa). Depending on the substrate, spray tip with an orifice of .015" to .021" (.38 to .53 mm) and minimum 40 degree fan angles is recommended. Prior to application flush equipment with clean water to prevent contamination

YIELD

Yield of primer will vary significantly based on specifications and substrate type. When calculating material needs. The provided above yields are averages for the priming step only.

CURING TIME

3 hours. High humidity and/or low temperatures will result in longer curing times.

PACKAGING

Pail 5.0 GAL (18.93 L), Drum 55 GAL (208.17 L), Tote 275 GAL (1,040.87 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.

MAINTENANCE / CLEAN UP

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. Do not use in swimming pools or other submerged conditions where the coating will be exposed to strong oxidizers.

⚠ 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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