



THERMOTEEK PRO 112 ACRYLIC ROOF COATING



DESCRIPTION

THERMOTEEK PRO 112 ACRYLIC ROOF COATING is a high solids, single component roof coating that allows you to extend the life of a roof while increasing the energy efficiency of the building. It is part of the THERMOTEEK PRO trusted 12-year limited warranty roof coating system.

PROPERTIES:

Physical Property	Test Method (ASTM)	Value
VOC Content	ASTM D-3960	<50 g/L
Viscosity, cps	ASTM D-2196	27000 +/- 2500
Density (lb/gal)	ASTM D-1475	11.13 ± 0.1
Appearance	Internal	Liquid
Type	Internal	Water based product
Color	Internal	White
Solar Reflectance	ASTM C-1549	0.87
Solar Reflectance Index	CRRC	110
Thermal Emittance	ASTM C-1371	0.89
Solids by volume, %	ASTM D-1644	42,0 ± 1
Solids by weight, %	ASTM D-1644	56,0 ± 2
Elongation, %	ASTM D-412	200 minimum
Drying time for water resistance	ASTM D-1640	8 hours. Drying time will increase depending on humidity
Total Dryingtime	ASTM D-1640	12 Hours
Fungus Resistance	ASTM G-21	APPROVED
Tensile Strength, lb/in ² (Mpa)	ASTM D-412	200 minimum
PH	ASTM E-70	9,0 ± 0,5

BENEFITS

- High solar reflectivity (>85%); extends the life of the roof
- Reduces energy consumption; saves >\$4,700 in cooling costs*
- Excellent waterproofing and mold protection
- Low maintenance cost
- Ease of application
- 12-year system limited warranty

SUBSTRATES

- Metal
- Sprayed Polyurethane Foam (SPF)

- Acrylic Roof Coatings
- Concrete
- Stucco
- Mortars
- Modified Bitumen Membranes (torch and self adhesive granulated finish membranes)
- Asphalt Build-up Surfaces
- Asphalt Roof Systems

APPLICATION TOOLS

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

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 (pressure washing is recommended). If the roof contains grease spills, use mineral spirits and mop thoroughly. Any loose coating must be removed. Ensure the substrate is structurally sound, fully cured and dry. Perform adhesion test(s) (also known as Pull Test(s)) on the substrate. Pull Test(s): Apply a generous coat of THERMOTEEK PRO ROOF COATING on the surface with a brush, a minimum of 6" (15 cm) long and 3" (7.5 cm) wide. Immediately embed a minimum of 1"-2" (2.5 cm - 5 cm) wide strip of THERMOTEEK PRO ROOFING MESH while leaving at least 3" of the length of the mesh uncoated. Apply a second coat 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.

METAL ROOFS: All rusted areas shall be mechanically abraded and corroded/deteriorated metal shall be replaced. A rust inhibitor should be used before applying THERMOTEEK PRO 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). To avoid yellowing of the top coat, use a yellowing inhibitor over the entire roof surface before applying THERMOTEEK PRO ACRYLIC PRIMER. New asphalt shall be exposed to ambient conditions for 90 to 120 days before coating.



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MIXING

THERMOTEK PRO 112 ACRYLIC ROOF COATING must be mixed/agitated for 3-5 minutes either by hand or with a mechanical mixer prior to use.

APPLICATION STEPS

Visit www.thermotekpro.com for short instructional videos

1) PREP

Complete proper surface preparation.

SMOOTH SURFACES (i.e.: metal roofs): Dilute THERMOTEK PRO ACRYLIC PRIMER with water at a ratio of 1:3 (primer:water). Using a brush, 3/8" nap woven roller or spray equipment, apply one (1) coat at a rate of 0.5 gal/100 sq. ft.

ROUGH SURFACES (i.e.: granulated, concrete): DO NOT DILUTE. Using a brush, 3/8" nap woven roller or spray equipment, apply one (1) coat of THERMOTEK PRO ACRYLIC PRIMER at a rate of 1 gal/100 sq. ft.

2) PATCH

Address all roof details and critical points by sealing/reinforcing them with THERMOTEK PRO ACRYLIC MASTIC, THERMOTEK PRO ROOFING MESH and THERMOTEK PRO ROOF COATING.

CRACKS AND SEAMS: Apply a layer of THERMOTEK PRO ACRYLIC MASTIC using a brush or spatula to cover all the areas that need reinforcement. Then apply a layer of THERMOTEK PRO COATING and embed an appropriately sized piece of THERMOTEK PRO ROOFING 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. The properly prepared crack or seam can now receive a final layer of roof coating. 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.

OTHER EXTERNAL ACCESSORIES: Remove the accessory from the roof surface. Apply THERMOTEK PRO ACRYLIC MASTIC to the bottom of the accessory using a brush or spatula. Replace/refasten the accessory onto roof surface. Apply a layer of THERMOTEK PRO ACRYLIC MASTIC onto the top edges of the accessory. Then apply a layer of THERMOTEK PRO ROOF COATING and embed an appropriately sized piece of THERMOTEK PRO ROOFING 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. The properly prepared accessory can now receive a final layer of roof coating to complete the patch.

3) COAT

The THERMOTEK PRO 112 ACRYLIC ROOF COATING requires two (2) coats. Apply the first coat using a brush, 3/8" nap woven roller and/or with proper high-pressure spray equipment.

Allow the first coat to cure 6-12 hours before applying the second coat. If the temperature is 55 °F (13 °C) or above, the cure time will be a minimum of 6 hours. Apply the second coat of THERMOTEK PRO 112 ACRYLIC ROOF COATING perpendicular to the first coat and let it cure.

SMOOTH SURFACES (i.e.: metal roofs): Apply each coat at a rate of 1 gal/100 sq. ft.

ROUGH SURFACES (i.e.: granulated, concrete): Apply each coat at a rate of 1-1.5 gal/100 sq. ft.

CURING TIME

6-12 hours per coat for rain resistance and between coats. Allow 12-24 hours for full cure. High humidity and/or low temperatures will result in longer curing times.

CLEAN UP

Clean application tools and equipment with clean water.
DO NOT USE solvents.

PACKAGING

- BUCKET 0.90 GAL
- PAIL 4.75 GAL
- PAIL 4.75 GAL (part of THERMOTEK PRO EASY AS 1-2-3 KIT)

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.



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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 a yellowing inhibitor over asphaltic systems before applying the THERMOTEK PRO ACRYLIC PRIMER to avoid yellowing. 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 using detergent (such as TSP) and water only.

COMPLIANCES / CERTIFICATIONS

- NATIONAL ROOFING CONTRACTORS ASSOCIATION (MEMBER)
- ENERGY STAR® CERTIFIED
- UL CLASSIFIED AND FIRE RATED
- COOL ROOF RATING COUCL (CRRC) RATED PRODUCT - PRODUCT ID#0734-0009
- MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED (NOA No.: 12-0921.10)
- MEETS CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 6, Section 118(i))





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**Cooling costs savings calculations based on a 1,900 sq ft building in Phoenix, AZ using the DOE Cool Roof Calculator (Version 1.2): [https:// web.ornl.gov/sci/buildings/tools/cool-roof/](https://web.ornl.gov/sci/buildings/tools/cool-roof/) Savings calculations are in comparison to a black roof and consider a 3-year aged solar reflectance and infrared emittance as listed by the CRRC Products Directory (ID# 0734-0009). Other calculation inputs used are the average values. Energy source for heating selected was "natural gas and a furnace". Energy savings calculations are based on the assumptions listed and then multiplied by the stated product limited warranty term. Your energy savings may vary.*

LIMITED WARRANTY: Master Builders Solutions US warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide available at www.thermotekpro.com for a period of 12 YEARS if used as directed and within the stated shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. Master Builders Solutions US MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is the replacement of product or refund of the purchase price, in the areas proven to have a product defect, at the sole option of Master Builders Solution US. Any claims concerning this product must be received in writing within twelve (12) years from the date of purchase and any claims not presented within that period are waived by Purchaser. Master Builders Solutions US WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND. The original proof of purchase must be provided.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on Master Builders Solutions US present knowledge and experience. However, Master Builders Solutions US assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Master Builders Solutions US reserves the right to make any changes according to technological progress or further developments. The Purchaser of the product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

WARNING: Contains Titanium Dioxide, Zinc Oxide, Limestone, 2-Methylpropanoic acid monoester with 2,2,4-trimethylpentane-1,3 diol, 2-Octyl-4-isothiazol-3-ones, Ammonium Hydroxide. MAY CAUSE ALLERGIC SKIN REACTION. Use only with adequate ventilation. Avoid breathing vapor. Avoid prolonged or repeated contact with skin and clothing. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed. FIRST AID: IF INHALED: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Get medical attention. IF ON SKIN: In case of contact, remove contaminated clothing and shoes. Immediately flush skin with soap and plenty of water. Get medical attention if symptoms occur. IF IN EYES: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention if needed. IF SWALLOWED: Call a poison control center or physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. KEEP OUT OF REACH OF CHILDREN. For additional information read the Safety Data Sheet (SDS) for this product.

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov