PERMA-TECH ROOFING SUPPLY

THE SCIENCE OF STRONG ROOFS

847

TECHNICAL DATA SHEET

DESCRIPTION

Product No. 847 is an ultra-white 100% acrylic elastomeric roof coating with state-of-the-art bleed-blocking technology. This premium grade roof coating is designed for maximum protection against sun and extreme weather. Its bright white finish enables it to deflect the sun's heat and harmful UV rays, protecting the roof substrate and extending life expectancy. **Product No. 847** forms a thick, rubber-like shield that expands and contracts greater than 250% to prevent roof damage. **Product No. 847** resists cracking, peeling, and mildew while offering unbeatable weatherproof protection and excellent resistance to ponding water.

USES

Product No. 847 with state-of-the-art bleed-blocking technology can be used over asphalt, tar, hot-applied built-up roofing, granulated cap sheet, spray polyurethane foam (SPF), and metal roofing systems. **Product No. 847** can be directly applied over most previously coated roof surfaces. **Product No. 847** should not be applied over 100% silicone. When applying over aluminum roof coating, exposed spray polyurethane foam, TPO, or EPDM follow surface preparation instructions below.

SURFACE PREPARATION

Roof substrates must be clean, dry, free of all debris, and any contaminants which would impede proper adhesion. A pressure wash is recommended, if a pressure washer is not available a cleaning agent should be used in conjunction with hose and broom washing. In addition to pressure washing, a wire brush should be used to remove any surface rust on metal roofing systems. Metal panels where the structural integrity has been compromised should be removed and replaced with like panels. A bleach and water solution (1 part bleach to 2 parts water) should be used to treat any roof areas that have mildew or algae. All roof surfaces should be thoroughly cleaned and allowed to dry completely prior to application of any Perma-Tech Roofing Supply products. Over aluminum roof coating, one coat of Product No. 650 Stain Shield or Product No. 670 X-Treme must be applied prior to the application of **Product No. 847**. All large cracks and seams should be repaired by embedding one layer of polyester fabric between two layers of Product No. 510 Reinforced Acrylic Mastic prior to application of **Product No. 847**. To achieve proper adhesion over TPO, PVC, EPDM or exposed spray polyurethane foam, one coat of Product No. 670 X-Treme must be applied prior to any Perma-Tech Roofing Supply repair or topcoat products.

APPLICATION

Proper protective clothing and PPE should be worn when applying products. It is normal to see a small amount of separation when first opening a pail. If necessary, gently mix the product with a roller frame or paddle mixer, being careful to not introduce air into the product during mixing. Product can be applied by roller (3/4 - 1 1/4" nap), brush, and spray equipment capable of 2000 - 3000 PSI and 1 - 3 GPM of output. For best results when spraying, an 8-31 - 8-41 reversible spray is recommended. Do not dilute product. Perma-Tech Roofing Supply Products should not be applied when freezing temperatures or rain is expected within 24 hours of completed application. During application, roof surface temperatures should be between 40- and 115-degrees Fahrenheit, with no moisture present.

DO NOT APPLY TO ANY SURFACES THAT CONTAIN SILICONE

RECOMMENDED COVERAGE RATES (Completed in 2 coats)

Product No. 847 should be applied at a minimum rate of 1 - 1 ½ gallons per 100 square feet of roof surface, per coat. The first coat should be allowed to cure approximately 24 hours before a second coat is applied. The second coat should be applied perpendicular to the first coat (cross hatch application). Two coats applied at the specified rate are required to obtain a Limited Manufacturer Material Warranty. Coverage rates will depend on porosity of the roofing substrate. Final Dry Film Thickness (DFT) will determine the overall success and warranty term.

CLEAN UP

Clean brushes, tools and other equipment with warm soapy water immediately after use. Dried film may require paint remover.

STORAGE

Product should be stored in a clean and dry area, away from direct sunlight and protected from freezing.

PHYSICAL PROPERTIES

Acrylic Elastomeric Roof Coating with Excellent Adhesion and Durability

Solids by Weight (%)	65%
Solids by Volume (%)	47%
Weight per Gallon	11.2 lbs
Drying Time at 50% relative humidity and 70°F; Touch: 4 hrs, Firm: 12 hrs	
Silicone (%)	None
Flammability	None
VOC	< 100 g/l
Elongation (%)	> 250%
Tensile Strength	> 250 PSI
Viscosity	130 KU
Excellent Adhesion to Granulated Cap Sheet & Spray Polyurethane Foam	
Tear Resistance	> 120 lbf/in.
Water Swelling After 7 Days	< 10%
Brightness	94%
Reflectivity	87%

**NOTE: Percentages stated are + or - 5% Approx. Shipping Weights: (All approximate weights include container) 5-gallon bucket weight approximately 62 lbs.*

HANDLING PRECAUTIONS

Product safety information required for safe use is not included. Before handling, read product safety data sheets and container labels for safe use, physical and health hazard information. Safety data sheets are available on the PermaTech Roofing Supply website at www.permatechroofing.com. You can also obtain a copy from one of our local Perma-Tech Roofing Supply stores.

LIMITED WARRANTY & DISCLAIMER

To the best of our knowledge, the technical data contained herein is true and accurate at the date of issuance and is subject to change without prior notice. User must contact Perma-Tech Roofing Supply to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. Liability, if any, is limited to replacement of product unless installed by an approved contractor in accordance with Perma-Tech Roofing Supply warranty procedures and program. For limited manufacturer's warranty and disclaimer information, visit our website at: www.permatechroofing.com.