TECHNICAL DATA SHEET

Pro-Grade® 988

(formerly PGE988HS)

Silicone White Roof Coating

Physical Property	Typical Value	Test Method
Appearance	Bright White, fluid	-
Application Temperature (Ambient)	35ºF to 120ºF (2ºC to 49ºC)	-
Durometer Hardness	42 Shore A	ASTM D2240
Elongation at break	170%	ASTM D412
Flash Point	140.9ºF (60.5ºC)	ASTM D93
Flame Spread	Class A	ASTM E108
Low Temperature Flexibility	-15ºF (-26.1ºC)	ASTM D522
Permeability	4.6 perms	ASTM E96
Solar Reflectance, Initial	0.88	ASTM C1549
Solar Reflectance Value (SRI), Initial	111	-
Solids Content by Volume	92% +/-3	ASTM D2369
Tack-Free Time	1-2 Hours	-
Tensile Strength	320 psi	ASTM D412
Thermal Emittance, Initial	0.88	ASTM C1371
VOC Content (maximum)	10 g/l	EPA Method 24
Water Absorption	0.0005%	ASTM D471
Water Resistance (Hydrostatic Pressure)	100 psi (min 24 wet mil)	AATCC 127 (option 1)
Water Leakage Resistance	Pass (≥22 dry mils)	ASTM D7281
Weathering, Accelerated QUV 5,000 hours	No Degradation	ASTM G154

Approvals and Certifications

- Meets or exceeds ASTM D6694 Standard Specification for Liquid-Applied Silicone Coating Used in Spray Polyurethane Foam Roofing Systems.
- Meets or exceeds ASTM D7281 Standard Test Method for Determining Water Migration Resistance through Roof Membranes.
- Excellent fungi resistance ASTM G21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
- ENERGY STAR® certified.
- Meets the requirements of California Energy Commission (CEC) Title 24 Section 118(i)3.
- Cool Roof Rating Council (CRRC) listed. Product ID# 0620-0036.
- Florida Product Approval.
- FM Rated.
- UL Approved.
- Miami-Dade County, Florida NOA # 14-1217.01; 14-1217.02; 14-1217.03.
- NSF P151 approved for rainwater catchment.

Description

Pro-Grade® 988 Silicone White Roof Coating is a 100% silicone, high solids, solvent-free, one-component, moisture-curing silicone rubber roof coating system for use on existing smooth asphaltic BUR, smooth or granulated cap sheet, single ply roof membrane, well-adhered acrylic coating, metal, concrete, sprayed-in-place polyurethane foam and various aged membrane roofing. The system provides long-term weathering protection and resists the effects of ozone, ultraviolet radiation and temperature extremes. With its high solids content and absence of hydrocarbon solvents, **Pro-Grade® 988 Silicone White Roof Coating** can be applied in excess of 50 mils in a single coat without blistering, while maintaining maximum adhesion.

Features

- High solids.
- Solvent-free – VOC compliant.
- Permanent ponding water resistant.
- Rain safe in 15 minutes.

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Pro-Grade® 988 Silicone White Roof Coating

- 100% silicone moisture-cure technology.
- Chemically bonds with roof substrates as it cures.
- Mold and mildew resistant.
- Easy application with roller, brush, or commercial spray equipment.
- Wide temperature performance range: -40°F to +200°F.

Product Size

5 GALLON, 55 GALLON

Colors

Standard: White

Shelf Life

Unopened, 24 months from date of manufacture when stored in a cool, dry, and shaded location.

Usage

Coating can be used on many different commercial and residential roof substrates to reflect the sun's heat and UV rays, as well as to help seal and protect the surface. It works well on low slope roofs and suitable for pitched roofs. Acceptable roof types include:

- Spray polyurethane foam (SPF) roofs.
- Metal roofs.
- Recoating previously coated roofs.
- Aged asphalt roofs – including Built-Up Roofing (BUR) and Modified Bitumen (MB) roofs.
- Aged Single Ply Membrane, including EPDM, TPO, PVC, and Hypalon® roofs.
- Aged concrete.

To prevent bleed-through, discoloring and staining over new or aged asphalt materials, BUR and modified bitumen membrane, **Pro-Grade® 294 Base Coat & Sealer** must be used. On metal roofs, remove all rust and treat with a rust-inhibiting spot primer. Not recommended over Kynar® / Hylar® coated metal roofs, or shingles of any kind.

Always perform an adhesion test patch over EPDM, TPO, PVC, and Hypalon® and existing coated roofs, and metal roofs. Refer to the Adhesion Test Instructions for more information. If the adhesion test result is not greater than or equal to two pounds, use **Pro-Grade® 941 Primer** and repeat test.

Application

Clean: Using a minimum 2,000 psi pressure washer wash the roof with a non-filming detergent, such as TSP or TSP substitute. Caution should be used to not inject water into the roof substrate during washing. In areas with stubborn dirt, grease, or other contaminants, use a stiff bristle brush or broom to scrub the areas clean with additional water and non-filming detergent. Treat mildew or mold. Give the roof a final rinse to ensure it is free of all detergent or anything else that could affect adhesion. Allow roof to dry completely before application. Apply a test area of coating over the existing membrane to verify proper adhesion to membrane prior to start of application.

Prep: Repair defects, such as splits, cracks, blisters, deteriorated flashing, cracked metal edging, and any other defects affecting the water tightness of the roof. As a preventative measure, seal all penetrations, curbs, flashings, transition areas, areas where dissimilar materials intersect, and other areas that could leak with **Pro-Grade® 920 Silicone Roof Sealant** or **Pro-Grade® 923 Butter Grade Silicone Roof Sealer, Pro-Grade® 957 Silicone Fibered Roof Sealer** or a three-course patch with **Pro-Grade® 988 Silicone Roof Coating**. Ensure all drains are clean and clear and cut back any vegetation that is growing that may cause debris to fall on the roof and clog drains in the future.

On metal roofs, remove all rust and treat with a rust-inhibiting spot primer. On asphaltic roofs, use **Pro-Grade 294® Base Coat & Sealer** for bleed blocking. If primer is required on single ply membrane, apply **Pro-Grade® 941 Primer**.

Coat: Coating should only be applied to a clean, dry, and fully prepared roof substrate as described above. It may be applied with a 1/2" to 1" nap lint-free roller, brush, or commercial airless spray rig. If spraying, a commercial airless spray rig capable of producing a minimum of 3500 psi at the spray gun tip is required. The pump should have a minimum of 3 gallons per minute output and be fed by a 5:1 transfer pump to prevent cavitation. Always use components rated for pump pressure. Hoses should have a minimum I.D. of 3/4" and an adequate working pressure.

The spray gun should be high pressure (5000 PSI) with a reverse-a-clean spray tip, having a minimum orifice of 0.030 and a 50° fan tip. Mix well prior to and during use with a minimum ¾ horsepower air operated mixer. After opening the container, try to use it up as soon as possible. Keep containers covered and sealed at all times during use, when practical. If a skin forms in the container, simply remove the skin, mix the product and use the rest. Coating must be evenly applied and pin-hole free. Allow coating to fully cure before applying additional coats (depending on weather conditions, a full cure may take 2-6 hours). Please consult Product Support for specific questions regarding the application of this product.

Coating should only be applied to a clean, dry, and fully prepared roof substrate as described above. Application at temperatures lower than 50°F (10°C) and less than 35% relative humidity will typically result in slower cure times. The surface temperature must be at least six Fahrenheit degrees or three Celsius degrees above the dew point and rising.

Coverage

Minimum coating coverage is 1.5 gallons/square. Dry film thickness (DFT) should be a minimum of 22 mils. Apply each additional coat in a perpendicular direction to the previous coat. Application rates should be adjusted to meet each particular roof's specified requirements. Coverage rates are theoretical and do not take into account for material loss due to spraying, surface texture, etc. Thicker dry film results in better performance and longer coating life.

- For Henry Gold Seal Warranty, see appropriate Henry Restoration System (HRS) Guide Specifications coating coverage rate requirements by substrate and duration.
- For Material Plus Warranty, see above-listed minimum coverage requirements. Condition of existing roof membrane dictates the applicable warranty term.

Clean-up

Clean-up of spray equipment containing uncured material may be accomplished by flushing with VM&P Naphtha or mineral spirits. Read solvent Safety Data Sheets before use. Keep cleaning solvents away from all sources of heat, sparks, flame, lighted smoking materials, or any other ignition source. This product cures by reacting with moisture and should not be left in spray guns, pump equipment, and hoses for prolonged periods unless equipment contains moisture lock hoses, fittings, and seals. Equipment without these components will transmit sufficient moisture vapor to gradually form cured material on hose walls and at unsealed connections potentially causing an increase in operating pressure and material flow restriction.

Precautions

Causes skin irritation. Causes serious eye irritation. Before handling, read the Safety Data Sheet for protective equipment and additional safety, health, and environmental information.

FOR PROFESSIONAL USE ONLY.
KEEP OUT OF REACH OF CHILDREN.
FOR EXTERIOR USE ONLY.
PLEASE READ THE ENTIRE LABEL.

DO NOT THIN. Do not apply at temperatures below 35ºF (2ºC) or if rain is expected within 1 hour of application. The surface temperature must be at least six Fahrenheit degrees or three Celsius degrees above the dew point and rising. When transporting, make sure the pail is secured and the lid is tightly closed to prevent spills. Store in a cool, dry, shaded location. Ensure lid is completely sealed.

This product is not recommended for interior use. Building occupants should be warned of spray operations in process. Installers should exercise caution during spray processes to avoid falls caused by stepping into slippery wet coating. Installers should read and understand all technical and informational literature on this product, prior to use of the product.

Employers should obtain a copy of the **Safety Data Sheet (SDS)** from your supplier or at the toll free number below.

Limited Product Warranty and Liability Disclaimer

Many factors affect the results obtained from this product – such as weather, workmanship, equipment utilized, and prior condition of the substrate – and these are all beyond our control. We, the manufacturer, warrant only that we will replace, at no charge, any product proved to have a material defect in original manufacturing within the life of the existing roof, provided the product has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided. DISCLAIMER OF CONDITIONS/WARRANTIES AND LIMITATION OF LIABILITY: THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER CONDITIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED CONDITION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO ONE,INCLUDING THE MANUFACTURER, SHALL HAVE ANY LIABILITY OF ANY KIND, INCLUDING FOR NEGLIGENCE OR

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