TECHNICAL DATA SHEET

Pro-Grade® 986

Silicone Base Coat

Physical Property	Typical Value	Test Method
Appearance	Gray, fluid	-
Application Temperature (Ambient)	35 ºF to 120 ºF (2 ºC to 49 ºC)	-
Tack-Free Time	1-2 Hours	-
Flash Point	140.9 ºF (60.5 ºC)	ASTM D93
Flame Spread	Class A	ASTM E108
Permeability	3.2 perms	ASTM E96
Solids Content by Volume	93% +/-3	ASTM D2369
Tensile Strength	>200 psi	ASTM D412
Elongation at break	>100%	ASTM D412
VOC Content (maximum)	10 g/l	EPA Method 24
Water Absorption	0.177% (negligible)	ASTM D471

Approvals and Certifications

- FM Certified
- UL Certified
- Miami-Dade County Approved
- Florida Approved
- NSF Protocol P151 Certification of Rainwater Catchment System Components
- Meets or exceeds ASTM D7281 Standard Test Method for Determining Water Migration Resistance through Roof Membranes

Description

Pro-Grade® 986 Silicone Base Coat is a 100% silicone, high solids, solvent-free, one-component, moisture-curing silicone rubber roof coating system for use as a base coat under **Pro-Grade® 988 Silicone Roof Coating** on existing smooth asphaltic BUR, smooth or granulated cap sheet, single ply roof membrane, well-adhered acrylic coating, metal, sprayed-in-place polyurethane foam and various aged membrane roofing. It can also be used as top coat if ceramic roof granules are broadcast in at 30 lbs./sq.* With its high solids content and absence of hydrocarbon solvents, **Pro-Grade® 986** 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
- 100% silicone moisture-cure technology
- Chemically bonds with roof substrates as it cures
- Easy application with roller, brush, or commercial spray equipment
- Wide temperature performance range: -40 °F to 200 °F

Usage

Coating can be used on many different commercial and residential roof substrates 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)
- Metal
- Recoating previously coated
- Aged asphalt including Built-Up Roofing (BUR) and Modified Bitumen (MB)
- Aged Single Ply Membrane, including EPDM, TPO, PVC and Hypalon®

To prevent bleed-through, discoloring and staining of **Pro-Grade® 988** white top coat over new or aged asphalt materials, BUR and modified bitumen membrane, **Pro-Grade® 294 Base Coat & Sealer** must be used prior to making silicone repairs. 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, Hypalon®, existing coated roofs and metal roofs. Refer to the Henry® Silicone 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: On metal roofs, remove all rust and treat with a rust-inhibiting spot primer. On asphaltic roofs, use **Pro-Grade® 294** for bleed blocking. If primer is required on single ply membrane or metal, apply **Pro-Grade® 941**.

After primer or base coat sealer is applied (if needed), 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**, **Pro-Grade® 923 Butter Grade Silicone Roof Sealer, Pro-Grade® 957 Silicone Fibered Roof Sealer** or a three-course patch with **Pro-Grade® 986** or **Pro-Grade® 988**. 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.

Coat: Coating should only be applied to a clean, dry and fully prepared roof substrate as described above. It may be applied with a ½ " 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). Contact Henry® 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.

NOTE: DO NOT THIN. Do not apply at temperatures below 35 ºF (2 ºC) or if rain is expected within 15 minutes of application. The surface temperature must be at least six Fahrenheit degrees or three Celsius degrees above the dew point and rising. Store product in a cool, dry, shaded location. Ensure lid is completely sealed. Not for use over gravel, Kynar® / Hylar® coated metal roofs, shingles of any kind or old roofs that are too dry and brittle to withstand the shrinkage stresses that occur after the application of any coating. Do not apply to wet or saturated roofs.

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. **Slip Warning**: Use extreme caution when walking or working on silicone coated surfaces. Surface is extremely slippery and can create a fall hazard resulting in injury or death.

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