

PROGUARD 6900 SILICONE ROOF COATING



FOR PROFESSIONAL USE ONLY

DESCRIPTION

PG 6900 silicone roof coating is a liquid applied one part silicone coating that is an excellent candidate to consider for use in roofing applications as the weathering coat over a variety of roofing materials including spray applied polyurethane foam, water-borne coatings (acrylic), PVC membranes, and galvanized/coated metals. PG 6900 silicone roof coating forms a durable, breathable, watertight and weatherproof barrier that is extremely resistant to degradation from natural weathering.

TYPICAL PERFORMANCE PROPERTIES

- **Silicone Durability** - Once cured, silicone rubber exhibits excellent long-term resistance to natural weathering including: extreme temperatures, ultraviolet radiation, rain and snow, with negligible change to elasticity.
- **Versatile Application** - PG 6900 is a one-part liquid applied silicone material that requires no mixing and can be applied by spray, roller or brush.
- **Ease of Use** - Low spraying viscosity permits easy spraying with most commercially available spray equipment while high static viscosity facilitates the material remaining where it is applied in areas of high pitch, vertical walls or parapets until full cure is achieved.
- **Ample Work Life** - Long work life provides sufficient time for treatments such as application of granules.
- **Accelerated Cure Rate** - Quickly attains its weather resistant properties.
- **Low Temperature Storage** - Storage may occur in unheated warehouses during the cooler months without the risk of freezing.

PACKAGING

PG 6900 is available in steel pails containing 5 US gallons (18.9 liters) or steel drums containing 50 US gallons (189.3 liters).

COLORS

This product is available in 4 colors:

Grade	Color
PG 6902	White
PG 6904	Medium Gray
PG 6905	Tan
PG 6908	Dark Gray

STORAGE

PG 6900 Should be stored in unopened containers and protected from exposure to direct sunlight and high heat. Store containers below 80°F (27°C) to maintain full shelf life.

TYPICAL PROPERTIES - SUPPLIED

PROPERTIES	TEST METHOD	RESULT ¹
Density	WPSTM P-14	10.45 lbs/gal (1.25 g/ml)
Solids Content, Volume	WPSTM P-19	69%
Solids Content, Weight	WPSTM P-19	85%
Tack Free Time	WPSTM E-86	45 minutes
Skin Over Time	WPSTM C-560	30-40 minutes
Viscosity	WPSTM C-560	4360 centipoises
Tensile Strength	ASTM D-412	190 psi (1.31 MPa)
Elongation	ASTM D-412	213%
Hardness, Type A Indentor	ASTM D-2240	37 ±3
VOC	EPA Method 24	228 g/L
Solar Reflectance ²	ASTM C-1549	0.82
Thermal Emittance ²	ASTM C-1371	0.91
SRI Value	ASTM E-1980	90

¹ Average value. Actual value may vary.

² Values derived from testing on PG 6902 White

INSTALLATION

PG 6900 silicone roof coating can be applied over numerous roof systems. Please contact the specific roof system manufacturer for details related to the underlying roof system being coated.

SURFACE PREPARATION

PG 6900 can be applied to itself and to most other silicone roof coatings as well as a variety of roofing materials, such as, but not limited to: spray applied polyurethane foam, water-borne coatings (acrylic), PVC membranes, galvanized/coated metal, and common parapet/coping materials. Roof surfaces must be clean, dry, structurally sound and free of loose particles, dirt, dust, oil, frost, mildew and other contaminants. Damage to the underlying roof system, such as cracks, openings, holes, etc. should be properly repaired prior to application of PG 6900. Contact ProGuard Group technical services for recommendations on proper cleaning methods.

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When recoating coated roofs, the existing coating may have to be power washed with an appropriate detergent and rinsed to remove cleaning solution.

Surfaces that are designed to prevent ponding of water are preferred to ensure proper performance of PG 6900.

Prior to application of coating, the installer should verify that acceptable adhesion is attained to the existing roofing materials to be coated. This is typically performed with a mock-up using the cleaning and surface preparation procedures under consideration. Coating should not proceed until mock-up testing has been completed.

APPLICATION GUIDELINES

PG 6900 is supplied ready to use and should not be diluted with solvent prior to application. If settling in the package has occurred, stirring or shaking can be employed to properly mix the coating.

For spray application, it is recommended that PG 6900 be sprayed in multiple coats applied in multi-directional (e.g. North-South, East-West) passes to ensure uniform build and to avoid the potential for pinholes. Final cured film thicknesses must be free of voids, pinholes, cracks or blisters.

Care should be taken to avoid overspray onto adjacent building materials, vehicles, plants, etc. Overspray can be cleaned up before it has cured by wiping alternately with solvent and dry rags. Cured material can be removed from surfaces with a razor blade, or scrubbed off with synthetic abrasive pads and solvent. To control overspray, avoid spraying in winds that may cause overspray drift. Surfaces not intended for coating should be masked or covered.

APPLICATION TEMPERATURE

Ambient temperature should be above 40°F (4°C). Lower temperatures will lengthen the skin over, tack free, and ultimate cure time. Frost and/or moisture can also develop which may interfere with adhesion of the coating to the substrate. As temperatures increase, the cure and working time of the coating will decrease which will shorten the time for application of granules.

APPLICATION EQUIPMENT

PG 6900 can be applied by employing rollers, brushes or spray equipment. For roller application, solvent resistant phenolic core

rollers are recommended. For spray application, PG 6900 works in most types of commercially available spray equipment. Contact a ProGuard technical services representative for equipment recommendations.

Cleanup of spray equipment containing uncured material may be accomplished by flushing with mineral spirits or other suitable solvent. PG 6900 cures by reacting with moisture and should not be left in pumping equipment and hoses for prolonged periods unless equipment contains moisture lock hoses, fittings and seals. Equipment without these components may 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.

APPLICATION THICKNESS

PG 6900 should be applied in a minimum of two coats with total combined dry film thickness of >24mm as follows to smooth surfaces:

Base Coat: Apply PG 6900 at a rate of 1.5 gallons per 100 sq. ft. Dry film thickness should be a minimum of 12 mils. Allow base coat to cure before proceeding to the top coat.

Top Coat: Typical cure time between base and top coat should be 12 to 24 hours. Apply PG 6900 at a rate of 1.5 gallons per 100 sq. ft. Dry film thickness of top coat should be a minimum of 12 mils.

Optional Granules: As an optional finish, granules may be applied by casting them into the top coat while it is still wet. Contact the granule supplier or manufacturer for guidelines on rate of granule casting or whether additional film thickness is necessary.

Irregular surfaces may yield different application rates. Testing should be performed to determine actual application rates necessary to achieve proper mil thickness. For ease of application, utilizing different colors for the base coat and top coat is recommended in order to visually confirm coverage of layers.

Coating Vertical Surfaces

When coating vertical wall surfaces other than parapets and walls associated or part of the roofing system being coated, ProGuard Silicone Coating is recommended. Contact a ProGuard representative for additional information.

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LIMITATIONS/PRECAUTIONS

PG 6900 is not intended nor recommended for use on pedestrian or traffic bearing surfaces. PG 6900 is not recommended for substrates subjected to continuous water immersion. Inclement weather may negatively affect uncured PG 6900; therefore, application of coating should not proceed if heavy rain, hail, etc, is expected within 24 hours of applying PG 6900.

PG 6900 should not be applied to:

- Unprepared surfaces including but not limited to those that are wet, dusty, oily, mildewed, heavily chalked, blistered or otherwise structurally unsound.
- Building materials that might bleed oil or solvents. These include, but are not limited to, certain vulcanized rubber products, tapes, failed sealants, some caulking compounds and asphaltic/mastic materials.
- Totally confined spaces, as the coating requires ventilation to allow for evaporation of solvent and atmospheric moisture for completion of cure.
- Surfaces where adhesion has not been verified by adequate testing.
- Customers must evaluate ProGuard Group products and make their own determination as to fitness of use in their particular applications.

EMERGENCY SERVICE

ProGuard Group maintains an around-the-clock emergency service for its products.

Location

Mainland U.S., Puerto Rico
 Alaska, Hawaii
 Canada
 Europe, Israel
 Middle East
 Asia Pacific (except China)
 China
 Latin America (except Brazil)
 Brazil
 All other locations world wide
 At sea

Emergency Service Provider

CHEMTREC
 CHEMTREC
 CHEMTREC
 NCEC
 NCEC
 NCEC
 NCEC
 NCEC
 SOS Cotec
 NCEC
 Radio U.S. Coast Guard in U.S. waters
 NCEC in International waters

Emergency Contact Number

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 +44 (0) 1235239670
 08000111767 or 08007071767
 +44 (0) 1235239670
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For Health related calls, contact Momentive Performance Materials at +1-518-233-2500 (English only).

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.

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