



#85 White Silicone Coating

DATA SHEET

COMPLIANCE: Exceeds performance requirements of ASTM C836 and ASTM D6694. Miami-Dade County Product Control Approved.

DESCRIPTION: Use TopShield #85 White Silicone Coating to seal existing roofs, protecting against leaks, ponding water and extreme weather. This fluid applied, high solids, moisture cure silicone coating provides solar reflectance to reduce roof surface temperatures. TopShield #85 outperforms conventional solvent and solvent-free coatings.

PRIMER: A TopShield approved bleed blocking primer should be used on applications over asphalt substrates to help limit bleed-through or discoloration. Asphalt, single ply membranes and metal should be field adhesion tested to determine if primer is needed.

PREPARATION: All surfaces must be dry and free of dust, dirt, oil, loose materials, peeling paint etc. Rusty metal must be cleaned and primed with a rust inhibiting primer. Surfaces with mildew or biological growth must be cleaned with a bleach solution (2 parts water to one part bleach). Clean and pressure wash the roof. A mild detergent with broom is recommended on single ply membranes. Use only a wide fan spray tip or wet vac. Previously coated surfaces must be completely dry and cured. Once dry, prime surface as required. Next, treat all penetrations, drains, flashings, ponding, terminations, curbs, etc., with an approved TopShield sealant and/or reinforcement as specified by TopShield.

NOTE: If surface temperatures become hot (over 180 °F) during application, wait for roof to cool. DO NOT apply to a wet or damp surface.

APPLICATION: For exterior use only. DO NOT THIN. Rain, dew, fog, frost and relative humidity greater than 70% may result in adhesion problems. Protective clothing, gloves, and eyewear should be used during application. Application should be completed when air and material temperatures are between 40 °F and 120 °F. Application can take place at colder temperatures (above 32 °F) however, special precautions must be taken to ensure there is NO MOISTURE, DEW or FROST present on the roof. These conditions will create adhesion issues. Apply with a 3/4" nap exterior paint roller (preferably with mill gauge) or long bristle brush. Contact TopShield for spray requirements. Apply a uniform coat over entire surface, avoiding excessive rolling. Coverage rate is 1.5 - 4 gallons per square (100 square feet) in a one coat application. Coverage varies depending on warranty & term. If multiple coats are used, additional coats shall be applied between 4 - 24 hours after first coat. If there will be foot traffic on roof after installation (and cured), embed 40 - 60 lbs. of #11 ceramic granules per 100 sq ft into top layer of coating to create a non-skid finish. Surfaces without granules are slippery when damp or wet. Coating dries in 2 - 4 hours and fully cures in 8 - 24 hours at 70 °F and 50% relative humidity at 1.5 gallons per square. Thicker films, poor air flow and low humidity will increase dry times. Seal container when not in use. Do not walk on coating until fully cured. The contents of this container are reactive with moisture in the air. Curing starts immediately upon opening lid or breaking seal. Opened product cannot be returned. Use all contents within one day of opening.

CLEAN-UP: Spray equipment with VM&P or Naptha. Do not leave silicone for long periods in hoses, pumps or spray guns.

SHELF LIFE: Up to 12 months depending on storage.

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Manufactured by:
Gardner-Gibson, Inc.
P.O. Box 5449, Tampa, FL 33675
See SDS for more information

TYPICAL PHYSICAL & PERFORMANCE CHARACTERISTICS:

Solids Weight (ASTM D1644)	98 ± 2%	
Solids Volume (ASTM D2697)	98 ± 2%	
Density	11.0 lbs/gal	
Tensile Strength (ASTM D2370)	300%	
Elongation (ASTM D2370)	200%	
Tear Resistance (ASTM D624)	37	
Reflectivity	.90 (Initial)	.76 (3 year)
Emissivity	.90 (Initial)	.88 (3 year)
SRI Value	115 Initial (Initial)	94 (3 year)
Permeability (ASTM E96)	4 perms	
Water Absorbtion (ASTM D471)	.1% after 2 weeks at 75 °F	
Weathering	No degradation after 5000 hrs	
Tack Free Time	1 hour	
Durometer Hardness	55 ± 5 pts	
Maximum Surface Temp	180 °F	
Flash Point	>290 °F	
Dry - Recoat	6 hours	
Full Cure	72 Hours	
Shelf Life	Up to 12 months depending on storage	

*Specification data may vary +/- 5% from published values.

Approx. Shipping Weights: (Note: All approx. weights include container)

1 gallons (3.4L)	12 lbs.
5 gallons (18.9L)	58 lbs.

VOC: <10 g/L (regulatory)

STORAGE & HANDLING PRECAUTIONS: Product safety information required for safe use is not included on this sheet. Before handling, read product Safety Data Sheet for safe use and for physical and health hazard information. Safety Data Sheets are available on the TopShield website at www.srstopshield.com. You can also obtain a copy from your local TopShield Distributor or TopShield sales representative. During application, always protect building inlets from product vapors and fumes. Finished product is extremely slippery when wet. For roofs with greater than 1/2" in 12 slope, and on roofs without parapets, it is recommended to embed a non-skid additive in the top surface of the coating. Shelf life is 12 months from date of manufacture. Not recommended to store at temperatures exceeding 100 °F. For maximum shelf life store between 40 °F and 70 °F. Higher temperatures will reduce shelf life. Once container is opened, all product should be used. Container cannot be resealed without product skinning or curing inside container. Always keep covered and protected from the elements. When transporting this product, ensure that lid is tight and pail secured. Only transport product in the cargo area of vehicle. Secure with rope or bungee cords over a drop cloth. If pail tumbles, leakage may occur. Ponding Water can create excessive weight on roofs. If ponding water exists, contact a structural engineer to ensure the additional weight can be supported by the roof deck and building structure. Ponding water can create a collapse hazard which can severely hurt or kill people. Always follow NRCA guidelines for Ponding Water situations. Dispose of in an environmentally acceptable manner.

WARRANTY AND 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 Gardner-Gibson at (813) 248-2101 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 Gardner-Gibson warranty procedures and program.