

EVER-SILIC[®] HS

Single Component High Solids Silicone Cool Roof Top / Base Coat

TECHNICAL DATA SHEET

EVER-SILIC[®] HS is a single-component silicone elastomer specifically designed with high volume solids. It is a pure elastomeric silicone coating system that provides superior weatherproofing, and UV resistance over a variety of roof substrates. The outstanding features of EVER-SILIC[®] HS are its high solids content, rapid cure and superior physical properties. Tested and certified to meet Cool Roof Rating Council (CRRC) guidelines for Title 24 compliance.

FEATURES AND BENEFITS

- Prolongs the life of a roof while helping lower internal temperatures and reducing cooling costs
- Hydrophobic - withstands water penetration
- High tensile strength and abrasion resistance
- Excellent adhesion to a variety of roof surfaces
- Ease of application - extremely fast and simple to install
- Can be used to reinforce and seal seams, penetrations and terminations, and make spot repairs
- Slows degradation caused by normal weathering, aging, and ultraviolet rays
- Economical - extends the life of your roof
- Retains its integrity from -80°F to 250°F
- Accelerator package is available to shorten cure time
- Can be re-coated up to 7 to 10 days between coats

TYPICAL USES

EVER-SILIC[®] HS can be applied to aged or cured single-ply, metal, spray polyurethane foam, built-up roofing or modified bitumen, and concrete roof systems. Can be applied as part of a maintenance or repair program or as part of a complete restoration system with EVER-SILIC[®] Cool Roof System.

All EVERROOF[®] products are to be used and applied with reference to and in conjunction with EVERROOF[®] Guidelines and Specifications.

DIRECTION OF USE

MIXING: Review all technical data sheets, system sheets, labels, instructions, SDS, and guide specifications before mixing and applying. At low speeds, mix 55 gallon (208.2 liter) drums and 5 gallon (18.93 liter) pails with a variable speed drill utilizing a jiffy mixer to suspend any settled pigments until a uniform color and consistency is achieved. Mixing time will vary based on temperature and atmospheric conditions.

APPLICATION: Prior to coating any surface, be sure the coating will adhere by performing an adhesion test (ASTM D-903). Coating may be applied by brush, roller, or airless spray equipment (see EVERROOF[®] Spray Application Guide). ALWAYS CHECK THE WEATHER PRIOR TO ANY APPLICATION. Depending on the ambient, and substrate temperatures, relative humidity, and dew point take extra time and caution when applying the coating within 2 to 6 hours of precipitation and/or when raw or freezing

TECHNICAL DATA	
Packaging	1 gal can 5 gal pail 55 gal drum
Coverage Rate Per Gallon	1.5gal/100sq.ft.=24 wet mills
Color	White, Gray, Tan, Custom Colors
Shelf Life	12 Months (unopened)
Weathering QUV 5,000 Hours	No degradation
Durometer Hardness: Shore A, ASTM 2240	45-55
Tensile Strength, ASTM D-2370	300 psi (2.07 Mpa)
Tear Strength, ASTM D-624	45 pli (7.88 N/mm)
Elongation, ASTM D-412	250% ± 15
Specific Gravity	1.32
Total Solids by Weight, ASTM D-2697	94% ± 2
Total Solids by Volume, ASTM D-2697	94% ± 2
Viscosity	10,000-15,000 cps
Permeability, US Perms, ASTM E-965	7.9
VOC, ASTM D-2369-81	<50 g/liter (0.40 lbs/gal)
Reflectivity 3 years (White)	0.67
Emissivity 3 years (White)	0.90
SRI 3 years (White)	82

temperatures are experienced or anticipated. Do not apply over wet insulation or related materials. It is not recommended to apply EVER-SILIC HS when substrate temperatures are over 120 degrees. Take extra precautionary measures when doing so. In areas where the roof is subject to foot traffic, it is recommended to apply walkway pads for added protection and slip resistance. EVER-SILIC HS can be extremely slippery, especially when wet. As an option, consider EVERROOF's EVER-SILIC Accelerator for faster cure times.

Spray Applied: See EVERROOF[®] Spray Application



Guide. Spray application is not recommended below 50°F (10°C).

LIMITATIONS: DO NOT EXCEED 2.0 GALLONS PER 100 SF PER APPLICATION for EVER-SILIC HS. This could cause blisters and/or pinholes. Care should be taken to avoid sagging, pinholes, and runs of the coating on vertical, horizontal, and slanted surfaces to prevent sagging. Application rate may need adjusting if coating starts to sag on verticals or higher slopes. Allow base coat and/or top coat to dry 24 hours between coats. Additional coats may be required to achieve required mil thickness. EVER-SILIC Accelerator may be added to speed cure time in cool or dry conditions. Actual required application rate will depend on system specified and length of warranty.

Recoat time for EVER-SILIC HS depends on environmental conditions and cleanliness of substrate. If applying after 48 hours an adhesion test is recommended (ASTM D-903).

STORAGE AND HANDLING

Keep containers closed and store in a dry, cool place away from heat, sparks, open flame, excessive heat, and moisture. Keep material stored above 65°F (18°C). Open containers should be blanketed with dry nitrogen before resealing. Avoid storing the pails or drums on concrete floors. Use of wood pallet is recommended.

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors or other ignition sources at locations distant from the material-handling point. Never use a welding or cutting torch on or near the drum. In case of fire, use CO₂, steam, dry chemicals or water fog.

SAFETY

Review the Safety Data Sheets (SDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

VAPOR INHALATION

The best form of protection against organic solvents or potentially sensitizing vapors in the workplace is a fresh air supply. Numerous manufacturers, including the 3M Company and MSA, make full face fresh air masks. For maximum protection, we recommend use of NIOSH/ MSHA approved self-contained breathing apparatus with a full-face piece operated in a positive pressure mode. In well-ventilated application conditions, the use of Type C organic vapor cartridge respirators is acceptable.

SKIN CONTACT

To prevent excessive skin contact with the sprayed product, we recommend use of fabric coveralls and neoprene or other resistant gloves.

EYE CONTACT

Wear a full-face mask or OSHA-approved protective goggles.

FIRST AID CONSIDERATION

Vapor inhalation problems are characterized by coughing, shortening of breath and tightness in the chest. Anyone exhibiting these types of symptoms should be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.

Effects of overexposure to vapor are characterized by nasal and respiratory irritation, dizziness, nausea, headache, fatigue, possible unconsciousness or even asphyxiation.

If ingested and the victim is conscious, give large amounts of water or milk to drink. Obtain medical attention immediately. Skin contact with liquid components can result in a rash or other irritation. Wash the affected skin area with water. Wipe residual liquid from the skin with a clean cloth, then wipe the affected area with 30% solution of rubbing alcohol. Follow the alcohol wipe with repeated washings with soap and water. If a rash or other irritation develops, see a physician.

Eye contact with liquid or sprayed components can result in corneal burns or abrasions. Upon exposure, eyes should be flushed with water for an extensive period. SUMMON EMERGENCY TRAINED MEDICAL ATTENTION IMMEDIATELY.

Please read all information in the general guidelines, technical data sheets, application guide, and safety data sheets (SDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local EVERROOF® representative or visit our website for current technical data and instructions. DISCLAIMER: All guidelines, recommendations, statements and technical data contained herein are based on information and tests that EVERROOF® believes to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and tests, to determine suitability of the product for his own intended use, application and/or situation and user assumes all risk and liability resulting from his use of the product(s). EVERROOF® does not suggest or guarantee that any hazards listed herein are the only ones that may exist. EVERROOF® shall not be liable to the user or any third party for any injury, loss, damage, or costs directly or indirectly resulting from use of, or inability to use, the product(s). Recommendations or statements, whether verbal or in writing, other than those contained herein shall not be binding upon EVERROOF®, unless in writing and signed by an authorized corporate officer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and EVERROOF® makes no claim that these tests or any other tests, accurately represent all environments. Not responsible for typographical errors. REV20190820AA