



SILICONE HS #3181

HIGH SOLIDS SINGLE COMPONENT SILICONE COATING

Technical Data

**SOLATEK SILICONE HS #3181
TECHNICAL DATA AND ADVANTAGES**

PRODUCT DESCRIPTION

SOLATEK SILICONE HS #3181 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 SOLATEK SILICONE HS #3181 are its high solids content, rapid cure and superior physical properties. Tested and certified to meet Cool Roof Rating Council (CRRC) and EPA guidelines for ENERGY STAR® compliance.

FEATURES and BENEFITS

- Prolongs the life of a roof while helping lower internal temperatures and reducing cooling costs
- Hydroponic - 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
- Can be re-coated up to 7 to 10 days between coats
- No checking or cracking after 8,000 hours

TYPICAL USES

SOLATEK SILICONE HS #3181 can be applied to aged or cured single-ply, metal, spray polyurethane foam, built-up roofing or modified bitumen, and concrete roof systems.

All TRESO products are to be used and applied with reference to and in conjunction with TRESO's Guidelines and Specifications.

DIRECTIONS FOR USE

MIXING: Review all technical data sheets, system sheets, labels, instructions, MSDS, and Guide Specifications before mixing and applying. 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. Do not apply when temperatures are below 40°F (4.4°C) or when precipitation is in forecast within 48 hours. In areas where the roof is subject to foot traffic, it is recommended to apply walkway pads for added protection and slip resistance.

TYPICAL PROPERTIES

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| 1. Solids by Weight: | 98% |
| 2. Solids by Volume: | 98% |
| 3. Solar Reflectance: | 88% |
| 4. Thermal Emittance: | 91 |
| 5. Tensile Strength: | 300psi Die C |
| 6. Elongation: | 200% [ASTM D412] |
| 7. Permeability: | 2.0 US perms |
| 8. Weathering QUV: | No Degradation |
| 9. Tear strength: | 45lbs/in |
| 10. Dry Time 75°F,50%RH:>3 hours | |
| 11. Viscosity: | 8,000-11,000 cps |

WARRANTY

SOLATEK SILICONE HS #3181 warranties are available for five (5), ten (10), fifteen (15) and twenty (20) year periods and are renewable for the life of the building. Refer to individual warranty documents for additional information.

LIMITATIONS

Do not proceed with application of coating materials when surface temperature is less than 40°F. No coating shall be applied if weather will not permit it to dry prior to exposure to precipitation or freezing.

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. 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.



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Our products are guaranteed to meet established quality control standards and product specification at the time of shipment. Information contained in our technical data is based on laboratory and field testing, but is subject to change without prior notice. No guarantees of accuracy are given or implied, nor does TRESO assume any responsibility for coverage, performance or injuries resulting from storage, handling or use of our products. Neither seller nor manufacturer has any knowledge or control concerning the purchaser's use. The only obligation of either seller or manufacturer shall be to replace any quantity of this product, which is proved to be defective. Any claim of defective product must be received in writing within one year from date of shipment.