



SEALGUARD VFI®-990 High Solids Silicone

SEALGUARD VFI®-990 High Solids Silicone liquid applied coating forms a seamless film using silicone chemistry. SEALGUARD VFI-990 provides UV stability and a waterproofing membrane in a single component package that cures at room temperature (RTV) and may be applied on site. SEALGUARD VFI-990 is a moisture cure elastomer specifically engineered for breathability and waterproofing that is resistant to oxidation and high temperatures.

→ Technical Usage

SEALGUARD VFI®-990 High Solids Silicone has been used in the following applications and may be used in many more applications. Contact Volatile Free, Inc. for more information on any specific applications.

- Above Grade Waterproofing
- Caulk and Sealants
- Gutter Repair Coatings
- Liquid Applied Roofing
- RV Coatings
- Sacrificial Coatings

→ Color

Standard Colors available are white, light gray, medium gray and tan. For additional premium colors or color matching services contact Volatile Free, Inc.

→ UV Stability

This product is UV color stable and has long-term UV testing. For additional information contact Volatile Free, Inc.

→ Coverage/Thickness Requirement

See VFI specifications for specific coverage information or contact Volatile Free, Inc. for additional coverage/thickness requirements.

→ Storage Stability/Shelf Life

12 month shelf life from date of manufacture when stored and sealed in unopened containers between 40°F - 75°F. Opened containers may be resealed with a nitrogen purge, but shelf life will be significantly shortened. Material should be brought to a minimum temperature of 65°F before use.

→ Equipment

SEALGUARD VFI-990 may be applied by sprayer, roller, or brush. If sprayed, use single component spray equipment capable of maintaining a minimum constant spray pressure of 5000 psi. 5:1 transfer pump should be used with drums. Contact Volatile Free, Inc. for more information on any specific equipment questions and requirements.

→ Surface Preparation

Surface preparation depends on application and substrate being coated. All surfaces should be cleaned, prepped and free of any oils, dirt or films that could affect the product adhesion. Contact Volatile Free, Inc. with any additional questions.

→ Mixing

Mixing until uniform is required on all material before use. Mix times may vary depending on volume and mixing method. Please contact Volatile Free, Inc. for more information on any specific mixing questions and requirements.

→ Material Application

Material can be applied between 40°F – 120°F. Standard application is a multiple coat method with 22 mil passes until the desired thickness is reached. Apply only when rain or other moisture contamination will not be present before fully cured. The time between subsequent coats should not exceed 48 hours, but materials should be allowed to cure before applying the second coat. Material cure time will vary with temperature.

→ Primers

Volatile Free, Inc. recommends adhesion patch testing before use and additional adhesion patch testing with the chosen primer. The following are approved primers for use with SEALGUARD VFI-990. Contact Volatile Free, Inc. with any primer questions.

- VFI-#11
- VFI-3218

→ Cleanup Solvent

Preferred cleanup solvent is chemically dry mineral spirits. Please contact Volatile Free, Inc. for more information on cleanup of equipment and tools.

→ Thinning








Do not thin prior to application.

→ Precautions

See Safety Data Sheet for complete safety data. Do not add any foreign material to this product. Avoid prolonged breathing of vapors and prolonged or repeated skin contact. Use only with adequate ventilation.

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Application Method

 SPRAY	 QWIK SPRAY	 BRUSH	 TROWEL	 ROLLER	 INJECTABLE	 POUR
X	-	X	-	X	-	-

Physical Properties

Tensile Strength	426 psi
Elongation	230%
Final Elongation after 5000 Hours	187%
Tear Strength	29 pli
Aged Solar Reflectance of White	0.68
Aged Thermal Emittance of White	0.9
Permeance	8.8 perm
Low Temperature Flexibility	Pass

Liquid Properties

Solids by Weight	96%
Solids by Volume	96%
Liquid Density	11.26 lbs/gal
Specific Gravity	1.24 g/mL
Flash Point	187°F
Viscosity	5000 cps
Tack Free Time	1-2 hours @75°F, 50%
Cure Time	2-4 hours @75°F, 50%
Recoat Time	4-48 hours @75°F, 50%
Flash Point	187°F
VOC	46 g/L

Packaging



Testing & Approvals



VOLATILE FREE, INC.

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