



## **VGF-316 SOLVENT-FREE SILICONE COATING FOR WALL RESTORATION**

**NOTE TO SPECIFIERS:** This specification provides a remedial wall coating system for application over pre-existing weathered wall surfaces. The use is restricted to circumstances where the wall surface is in sound condition, but requires a renewal of the surface due to the normal effect of aging and use.

When properly applied, G2G VGF-316 wall coating system provides a weather tight seal that protects the substrate from degradation caused by ultra violet light, water and other normal weathering hazards.

The G2G VGF-316 silicone coating discussed in this specification have a moderate rate of water vapor transmission. They are not recommended for use on cold storage or cryogenic structures. Such structures may have constant high water vapor drive causing long-term accumulation of moisture in the insulation. Consult G2G Silicones for vapor retardant systems to use on refrigerated structures.

The type of pre-existing wall must be identified.

All pre-existing walls/coverings must be well adhered and intact.

### **PART 1 - REQUIREMENTS**

#### **1.1 SUBMITTALS**

A. Wall Surface Conditions:

1. G2G Silicones representative to present to owner a completed inspection form verifying wall condition and any noted defects not specifically addressed in regard to this installation.
2. Wall surface shall be free from loose dirt, stone, debris, moisture, and shall be in stable condition. Any work on the area to receive this application shall be completed prior to installation.

#### **1.2 QUALIFICATIONS**

- A. Primary waterproofing materials shall be products of a single manufacturer. Secondary materials shall be recommended by the primary manufacturer.

### 1.3 PROTECTION OF BUILDING AND OCCUPANTS

1. All surfaces not to receive system specified shall be protected from overspray hazard i.e. windows, doors, exterior and vehicles. Protective coverings shall be secured against wind and shall be vented if used in conjunction with applications preventing collection and moisture.
2. Contractor is to post signs noting potential overspray hazard within 400' of applications.
3. All air intake ventilation equipment shall be turned off to prevent fumes from entering building.
4. Surfaces damaged during application shall be restored at no expense to the owner.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

Acceptable Manufacturer: G2G Silicones

### 2.2 MATERIALS

- A. Sealant: G2G FG-316 Flashing Grade
- B. Coating: G2G VGF-316 using contrasting colors and having the following physical properties:

Test Description		Test
Tensile Strength	247	ASTM D-412
Elongation	237	ASTM D-412
Permeability, perms	10.1	ASTM E-96
Hardness	37	ASTM D-2240 Shore A
Degradation, QUV 5,000 hours	0	ASTM G 154
VOC% grams/liter	>50	
Solids percent by volume	92 (+/-3)	ASTM D-2369

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Repair to structural components of the wall is complete.
- B. Verify that vents, ducts or other penetrations have been replaced, sealed or modified.

### 3.2 SURFACE PREPARATION

- A. Contact the G2G Representative to conduct an inspection to get direction on which of the below cleaning process will be required.
- B. In most cases, clean and prepare surfaces by removing all loose and flaking particles and dirt with the use of high pressure air lance.
  1. Where required, clean and prepare surfaces by removing all grease, laitance, loose and flaking particles with the use of a pressure washer with greater than 2000 psi. Caution should be used to not inject water into the wall surface during washing. In some cases additional drying may be required.
  2. Areas of algae, mildew or fungus on the wall surface, or the coating not removed

by the previous methods, should be treated with a chlorine water solution, followed by a clear water rinse. (This treatment can be done using a commercially available chlorine compound available from swimming pool supply houses. Concentration of the chlorine solution should be five times that recommended for normal treatment of swimming pool.)

- C. Drying: Wall surface must be completely dry before applying products. Examine wall surface, paying particular attention to areas of physical damage to determine that residual water has in fact dried. The wall surface should be allowed to dry completely if there is water present.

**NOTE:** Drying depends on weather conditions such as temperature, humidity and air movement. The above drying times assume good weather (70°F / 21°C.) daytime temperature and no rain. Conditions of lower temperature and rain will require a longer period for drying.

### **3.3 INSTALLATION**

Technical Advice: The installation of this system shall be accomplished in the presence of, or with the advice of the manufacturer's technical representative. Contact G2G Silicones for assistance.

- A. Wall Surface: Proceed with work as specified only after wall surface construction, preparation, and detail work has been completed (See section 3.2).
- B. All coating must be thoroughly mixed/agitated with a drill mixer prior to application.
- C. Coating may be spray applied or roller applied. Contact G2G for equipment and tool recommendations for application.
- D. Equipment: All equipment used during operations shall be located so as not to adversely affect the daily operations or endanger occupants, structure or materials on-site. All spray equipment must be grounded during operations.

#### **Step 1: Seal Wall Cracks/Penetrations**

Seal any large cracks or abnormalities in the existing wall surface or near wall penetrations in the existing wall surface.

- A. Liberally apply FG-316 using a stiff bristled brush or sealant knife, to effectively fill all vacant or cracked areas on the existing wall surface.  
Allow to dry 12 hours.

#### **Step 2: Coat**

- A. Apply VGF-316 silicone at the minimum of 10 mils. Apply an extra pass at all edges and wall penetrations if needed. Allow to dry 12 hours. Thickness shall be a minimum of 10 mils.

**Total dry film thickness, shall be a minimum of 10 mils.**

**Note:** Care must be taken to ensure proper film thickness. Surface must be dry, clean and free of debris. Extra material may be required on some wall surfaces because of the surface profile. While spraying material, there may be losses due to over spray, surface profile, and wind. Increases in material may be required. Consult a G2G Representative.