

# Permaroof® GWS

## A Self-Leveling Low Modulus Silicone Sealant for Roof Repairs

### FEATURES

Low Modulus

Excellent Adhesion

### BENEFITS

- Low stress joint
- Allows for high movement
- Watertight performance on BUR/MB surfaces

### DESCRIPTION

Permaroof GWS is a low modulus, high performance, moisture cure, one part gun grade silicone sealant with self-leveling characteristics.

### BASIC USES

Permaroof GWS is a versatile sealant used to repair existing asphalt BUR and MB roof membranes. Permaroof GWS may be used over the top of cracks, splits, and fractures in BUR and MB roof membranes in a single layer application without the need for additional reinforcing fabrics, for a fast, labor saving method to prevent moisture intrusion. Permaroof GWS may also be used on concrete and metal surfaces, in combination with the recommended Tremco silicone sealant primers.

### PACKAGING

Available in 850 ml (Quart) cartridges at 12 tubes/case. Also in 4.5 gallon (17.1L) pails.

### COLOR

Limestone

### STORAGE LIFE

One year

### APPLICATION

The following application information is intended to serve as a general guide. Your local Tremco Representative can prepare detailed specifications based upon your roof's conditions.

Surface cracks on bituminous membrane systems must be identified prior to application. Roof surfacings such as coatings and gravel may hide membrane cracks. Roof splits may correspond with substrate irregularities and construction joints. Roof insulation board joints may also serve as a location for roof splits.

**Surface Preparation:** Remove all loose and embedded gravel in a maximum 4 inch width centered over the entire length of the crack line. Where spudding is required to remove embedded gravel, use caution to avoid damaging the top ply of the roof membrane.

Roof surface must be clean and dry, and free of ice. Do not apply if rain is expected within 8 hours of application. A dry substrate is essential for an effective application. Moisture will prevent adhesion to the substrate and must be eliminated prior to application by drying the area with heat.

**Application:** Apply Permaroof GWS to the properly prepared surface along the crack lines to ensure a 3" to 4" wide bead directly over the center of the crack. Apply enough Permaroof GWS to cover the prepared area. Permaroof GWS is self leveling; troweling is not required.

A "two-pass" application is recommended; Apply one bead directly over the center of the crack line. Within 2 to 5 minutes, apply a second bead directly over the first. The resulting two bead application will self-level to an approximately 4" wide finished pass of Permaroof GWS.

Inspect the freshly applied bead within 15 to 30 minutes, and re-apply additional Permaroof GWS to voids, craters, and all defects in the applied bead which may impact the watertight seal.

# Permaroof® GWS

## APPLICATION CONTINUED

Allow Permaroof GWS to cure overnight before replacing gravel over sealant bead. Skin time is approximately 1 hour at temperatures above 75°F. Final through-cure is 2 weeks at temps above 75°F.

The minimum ambient and surface temperatures for Permaroof GWS are 40°F and rising, however, skin time and cure time are extended at these minimum temperatures. When applying Permaroof GWS at cool temperatures, keep product containers warm (above 60°F) prior to use, to maintain the flow characteristics of Permaroof GWS.

**Equipment:** For quart cartridge application, a manual quart caulk gun or an electric cordless dispenser, such as the Dewalt DC546B-18V, may be used. For applying Permaroof GWS from pails, an electric bulk gun, such as the Albion DL-45-T13E-18V may be used. In addition, manual bulk caulk guns, such as the Cox Avon 600-51001 or the Albion DL-45C-T17 are recommended.

## SKIN/RECOAT TIMES

Allow Permaroof GWS to cure overnight prior to replacing gravel over sealant bead. Skin time is approximately 1 hour at temperatures above 75°F. Final through-cure is 2 weeks at temps above 75°F.

## COVERAGE RATES

**Smooth substrates:** 10 to 15 linear feet per cartridge (850 ml) or 200 to 300 linear feet per 5 gallon pail.

**Irregular substrates:** 5 to 10 linear feet per cartridge (850 ml) or 100 to 200 linear feet per 5 gallon pail.

## LIMITATIONS

- Not intended for use under constant water submersion.
- Not intended for application to wet, damp, or contaminated surfaces.
- Use with adequate ventilation.
- Cure rate will slow as ambient temperature drops.
- Not for use with asphalt primer such as Tremprime WB, Tremprime LV, and Tremprime QD Low Odor.

## PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Elongation	1000%	ASTM D412
Crack-Bridging (15°F)	pass	ASTM C1305
Adhesion-in-Peel (Smooth BUR)	7.19 lbf/in.	ASTM D1876
Specific Gravity	1.3	
VOC	1 g/l	

## MAINTENANCE

Your local Tremco Roofing representative can provide you with effective maintenance procedures, which may vary depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound roof program.

## PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

## TECHNICAL SUPPORT

Your local Tremco Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications. The services of the Tremco Research Center, which has earned a unique reputation in weatherproofing technology, complement and extend the service of the Tremco Service Staff.



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