

MARCH 2023



# KNIGHTSHIELD

## KS-5600

### Non-Sag, Silicone Roof Flashing Sealant

#### DESCRIPTION

KNIGHTSHIELD KS-5600 is a one-part, moisture curing, 100% silicone roof flashing sealant. It is a high-performance product offering excellent UV resistance and weathering characteristics with resistance to hardening, chalking or cracking. It offers excellent adhesion to a variety of building materials.

#### USES

KNIGHTSHIELD KS-5600 is used on metal roof seams, flashings, fasteners, drains, aged single ply membrane roofs, existing SPF, modified bitumen, and other repair areas. The product is also used as a weather seal for vertical and horizontal crack repairs and for adhesion on two-point control joints. It can also be used for EIFS installation, restoration, concrete restoration and stucco repairs. KNIGHTSHIELD KS-5600 provides excellent tensile strength and high flexibility.

#### FEATURES/BENEFITS

- Provides permanent ponding water resistance
- Adheres to multiple substrates without primer
- Excellent adhesion and hang – can be used on both vertical and horizontal applications
- Excellent weather-ability
- Rain safe in one hour
- Provides a primary or secondary seal against water and air penetration
- Has a wide temperature application and performance
- 100% silicone moisture-cure technology
- Provides high performance sealing
- Ready to use and requires no mixing or additives

#### PACKAGING

10 Oz. (296 mL) Cartridges (20/Carton)  
 20 Oz. (591 mL) Sausages (12/Carton)  
 1 Gal. (3.8 L Cans) (2 Cans/Carton)  
 2.5 Gal. (9.5 L) Pails

#### SHELF LIFE

Twelve months from date of manufacture in the original, unopened container stored below 90° F (32° C). Store in dry, shaded conditions away from sources of heat or ignition.

#### APPLICATION

**Surface Preparation** ... All surfaces to be coated must be clean, dry and dust, laitance and frost free. If necessary, it is recommended to clean the surface with oil-free solvent. All plastic surfaces may be cleaned with isopropanol.

Although no primer is needed prior to applying KNIGHTSHIELD KS-5600; however, it is recommended to conduct a quick field adhesion test prior to application, especially when applying to existing coatings or membranes. Please contact W. R. MEADOWS for direction.

**Application Method** ... KNIGHTSHIELD KS-5600 is ready to use and requires no mixing or additives. Curing begins as soon as the flashing sealant is exposed to air.

At conditions of 77° F (25° C) and 50% relative humidity, a 1/8" (3 mm) bead of flashing sealant will skin over in 5 - 10 minutes and fully cure in 24 hours, attaining full physical properties in seven days. Skin-over and cure time will vary with humidity. Cure time will also vary with the degree of confinement. Tooling, if necessary, should be done before skin over takes place.

CONTINUED ON REVERSE SIDE ...

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**TECHNICAL DATA**

Type	100 % silicone, one-part
Appearance	Smooth, Non-Slump Paste
<b>Temperature Range</b>	
Application Temperature Range	35° to 120° F (2° to 49° C)
Useable Temperature Range	-76° to 392° F (-60° to 200° C)
<b>Uncured</b>	
Specific Gravity	1.03
Extrusion Rate (3.2 mm (1/8") orifice, 90 psi)	150 g/min
Slump/Sag	0.1"
Cure System	Neutral pH, Moisture Cure
<b>Cured at Standard Conditions for 7 Days</b>	
Durometer Hardness (ASTM D2240, Shore A)	27 points
Tensile Strength (ASMT D412)	250 psi (1.72 MPa)
Elongation at Break (ASTM D412)	400%
Tear Resistance (ASTM D624, Die B)	28 ppi (4.9 kN/m)
Shrink Factor	Nominally Zero
Joint Movement Capability	±25%

At standard conditions 77° F (25° C) and 50% relative humidity

**Drying Time**

Tooling/Skin-Over Time	5 - 10 Minutes
Tack-free Time	60 - 90 minutes
Cure Time	24 hours
Full Physical Characteristics	7 days

At standard conditions [77° F (25° C) and 50% relative humidity

**Available Colors**

White, Gray, Black, Tan

**LIMITATIONS/PRECAUTIONS**

KNIGHTSHIELD KS-5600 should not be applied below-grade to surfaces where there is hydrostatic waster pressure, to substrates that bleed oils, plasticizers or solvents (e.g., impregnated wood, oil-based caulks, green or partially vulcanized rubber gaskets or tapes), to surfaces in direct contact with food, or to surfaces that will be painted over.

Compatibility to other building materials or products is the sole responsibility of the specifier or end user.

Adequate ventilation should be provided with extensive use of this flashing sealant. This product is intended for use only by professional applicators.

For most recent data sheet, LEED information and SDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).



**LIMITED WARRANTY**

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.