

## PRODUCT DATA SHEET

# Sikaflex<sup>®</sup>-709 Insulation Sealant & Adhesive

Universal Flashing Sealant / Adhesive

### PRODUCT DESCRIPTION

Sikaflex<sup>®</sup>-709 Insulation Sealant & Adhesive is a one component, gun grade, flashing sealant designed to adhere to a wide range of air, vapor and weather barrier surfaces. Sikaflex<sup>®</sup>-709 Insulation Sealant & Adhesive provides an excellent seal at transitions between dissimilar materials. Sikaflex<sup>®</sup>-709 Insulation Sealant & Adhesive can be used for weather sealing where low movement is expected.

### USES

Will bond to "hard to bond" surfaces in the following applications:

- Interior air sealing of sheet and liquid applied weather and air barriers
- Termination and transition seals.
- Edge lap seals
- Sealing around penetrations in weather/air barriers and flashing materials
- Weather sealing around exterior window and door frames
- Adhering foam boards

### CHARACTERISTICS / ADVANTAGES

- Excellent resistance against weathering and moisture
- UV stable for exterior applications
- Non-corrosive - won't burn through insulation boards
- Can be painted over with water, oil, and rubber-based paints (preliminary Adhesion and Compatibility tests recommended)
- High durability
- Excellent unprimed adhesion to a wide range of building materials including many weather membranes such as peel and stick, spun-bounded thermoplastic and liquid applied membranes.
- Compatible with asphaltic and bituminous materials
- Forms an elastic bond with great durability
- Excellent unprimed adhesion to a wide range of "hard to bond" surfaces such as polyethylene surfaces, polypropylene surfaces, common polyolefins, PVC, steel, metals, aluminum, glass, etc.
- Compatible with natural stones and other porous surfaces susceptible to staining, shadowing or silicone fluid migration.

### PRODUCT INFORMATION

<b>Packaging</b>	9 fluid ounce (266 ml) moisture proof plastic cartridges; 12 cartridges / case
<b>Color</b>	Dark Bronze and White
<b>Shelf Life</b>	12 months from date of production if stored properly in original, unopened and undamaged, sealed packaging.
<b>Storage Conditions</b>	Store at 40° to 95° F (4° to 35° C). Condition material to 65° to 75° F (18° to 24° C) before using.

## TECHNICAL INFORMATION

Shore Hardness	30 (21 days)	(ASTM C-661) / (ASTM D2240) Tested at: 73 °F (23 °C) 50 % R.H.)			
Tensile Strength	200 psi (1.4 MPa) (21 days)	(ASTM D-412) Tested at: 73 °F (23 °C) 50 % R.H.			
Elongation at Break	250% (21 days)	(ASTM D412) Tested at: 73 °F (23 °C) 50 % R.H.)			
Movement Capability	± 12.5%				
Service Temperature	-40° to 170° F (-40° to 77° C)				
Coverage	<b>10.1 fl. oz. (300 ml) Cartridge: Yield in Linear feet</b>				
		<b>1/8" Depth</b>	<b>1/4" Depth</b>	<b>3/8" Depth</b>	<b>1/2" Depth</b>
	<b>Width</b>				
	<b>1/4"</b>	48.4	24.2		
	<b>3/8"</b>	36.3	16.2	10.8	
	<b>1/2"</b>	24.2	12.1	8.1	6.1
	<b>3/4"</b>	18.2	8.1	5.4	4.0
	<b>1"</b>	12.1			3.0
Ambient Air Temperature	40° to 95° F (4° to 35° C)				
Substrate Temperature	40° to 95° F (4° to 35° C)				
Curing Rate	5 to 7 days	Federal Specification TT-S-00230C 73 °F (23 °C) 50 % R.H.			
Tack Free Time	30 to 90 minutes	Federal Specification TT-S-00230C 73° F (23° C), 50% R.H.			

## BASIS OF PRODUCT DATA

Results are typical and may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions, and curing conditions.

- Since Sikaflex®-709 Insulation Sealant & Adhesive is moisture cured, permit sufficient exposure to air.
- The ultimate performance of Sikaflex®-709 Insulation Sealant & Adhesive depends on proper application, good design and proper surface preparation.
- Not for use in joints with movement more than ±12.5%.

## LIMITATIONS

- Avoid exposure to high levels of chlorine. (Maximum level is 5 ppm).
- Avoid contact with alcohol and other solvent cleaners during and after installation and cure.
- Do not apply when moisture vapor transmission condition exists from the substrate which can cause sealant to bubble.
- Use opened cartridges the same day.
- When applying sealant, avoid air entrapment.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage, and disposal of chemical products, user should refer to the actual current Safety Data Sheets containing physical, environmental, toxicological, and other safety related data. User must read the actual current Safety Data Sheets before using any products. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Mechanically clean all surfaces. Interior joint surfaces walls must be sound, clean, dust-free, dry, frost-free, and free of oil, grease and any other contaminants.

**Porous Substrates** – Clean by mechanical methods to expose a sound surface free of contamination and laitance.

**Nonporous Substrates** – Lightly abrade smooth surfaces and remove loose dust and debris. Wipe surfaces using a clean white cloth dampened with either Isopropyl Alcohol, Acetone, MEK or Xylene. Follow solvent wipe with a clean, dry rag wipe. Ensure cleaning agent has completely evaporated away prior to Sikaflex®-709 Insulation Sealant & Adhesive installation.

### APPLICATION

Prior to exterior, cold ambient and substrate temperature applications, condition material between 65° to 75° F (18° to 24° C) before using.

For best performance, Sikaflex®-709 Insulation Sealant & Adhesive should be dispensed into joint while at its midpoint of low movement. Place nozzle of cartridge into the bottom of void (over closed cell backer rod or bond breaking tape if required) and fill. Keeping nozzle in the sealant, continue dispensing with a steady flow preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate air entrapment. Tool as required with a dry putty knife, trowel or spatula to ensure full contact with surfaces within voids and avoid air entrapment.

**Lap Joints and Transitions:** When used to seal lap joints and transitions between two flashings or other materials, apply Sikaflex®-709 Insulation Sealant & Adhesive slightly exceeding each side of the lap joint by 1/4 to 3/8 inch (6 to 10 mm) with a minimum 1/8 inch (3 mm) of sealant depth. Dry tool sealant with uniform pressure to ensure proper contact and wetting to all surfaces requiring sealant.

**Window and Door Frame Joint Applications:** Sikaflex®-709 Insulation Sealant & Adhesive should be dispensed into joint void over closed cell backer rod as described above (i.e. for best performance).

**Foam Board Adhesive:** Apply Sikaflex®-709 Insulation Sealant & Adhesive as a series of vertical beads. Start the beads approximately 1 to 2 inches (25 to 50 mm) from the panel edge. Immediately after applying Sikaflex®-709 Insulation Sealant & Adhesive, place the foam board against the clean, dry substrate and press firmly into place to flatten out the adhesive. Install mechanical fasteners and brace as needed.

## CLEANING OF TOOLS

Uncured material can be removed from surfaces with an approved agent (e.g. Isopropyl Alcohol, Acetone, MEK or Xylene). Cured material can only be removed mechanically. For spillage - collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations.

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## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION

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