

PRODUCT DATA SHEET

SikaHyflex[®]-109 Insulation Sealant & Adhesive

UNIVERSAL FLASHING SEALANT / ADHESIVE

PRODUCT DESCRIPTION

SikaHyflex[®]-109 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. SikaHyflex[®]-109 Insulation Sealant & Adhesive provides an excellent seal at transitions between dissimilar materials. SikaHyflex[®]-109 Insulation Sealant & Adhesive can be used for weather sealing where low movement is expected.

USES

Will bond to difficult 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
- Noncorrosive
- 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

Packaging	10.1 fluid ounce (300 ml) moisture proof plastic cartridges; 12 cartridges / case
Color	Dark Bronze and White
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged, sealed packaging.
Storage Conditions	Store at 40° to 95° F (4° to 35° C).

Condition material to 65° to 75° F (18° to 24° C) before using.

Shore A Hardness	30 (21 days)	(ASTM C-661) 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.)		
Service Temperature	-40° to 170° F (-40° to 77° C)			
Coverage	10.1 fl. oz. (300 ml) Cartridge: Yield in Linear feet			
	1/8" Depth	1/4" Depth	3/8" Depth	1/2" Depth
Width				
1/4"	48.4	24.2		
3/8"	36.3	16.2	10.8	
1/2"	24.2	12.1	8.1	6.1
3/4"	18.2	8.1	5.4	4.0
1"	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.		

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 SikaHyflex®-109 Insulation Sealant & Adhesive installation.

APPLICATION METHOD / TOOLS

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, SikaHyflex®-109 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 SikaHyflex®-109 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: SikaHyflex®-109 Insulation Sealant & Adhesive should be dispensed into joint void over closed cell backer rod as described above (i.e. for best performance).

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

Foam Board Adhesive: Apply SikaHyflex®-109 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 SikaHyflex®-109 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.

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.
- Since SikaHyflex®-109 Insulation Sealant & Adhesive is moisture cured, permit sufficient exposure to air.
- The ultimate performance of SikaHyflex®-109 Insulation Sealant & Adhesive depends on proper application, good design and proper surface preparation.
- Not for use in expansion joints.

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.

OTHER RESTRICTIONS

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

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Product Data Sheet

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