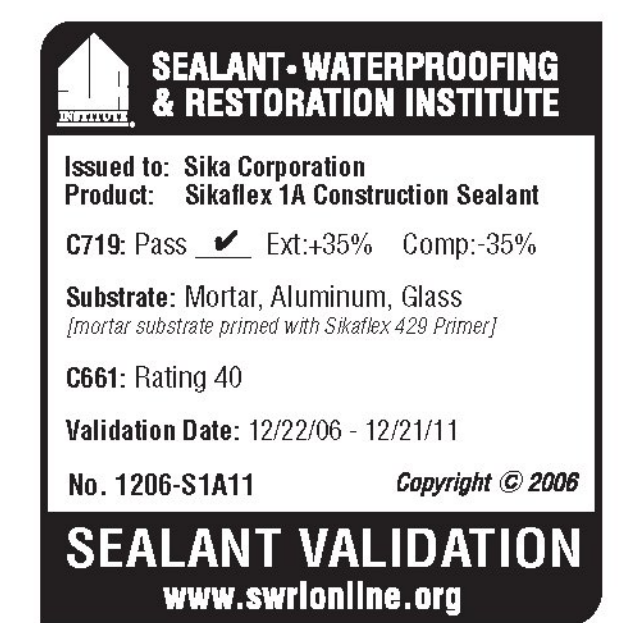


Construction

Product Data Sheet
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Sikaflex-1a

Vermont Agency of Transportation
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Sikaflex®-1a

One part polyurethane,
elastomeric sealant/adhesive

Description	Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Meets Federal specification TT-S-00230C, Type II, Class A. Meets ASTM C-920, Type S, Grade NS, Class 35, use T, NT, O, M, G, I; Canadian standard CAN/CGSB 19.13-M87.
Where to Use	<ul style="list-style-type: none"> Designed for all types of joints where maximum depth of sealant will not exceed 1/2 in. Excellent for small joints and fillets, windows, door frames, reglets, flashing, and many construction adhesive applications. Suitable for vertical and horizontal joints; readily placeable at 40°F. Has many applications as an elastic adhesive between materials with dissimilar coefficients of expansion. Submerged conditions, such as canal and reservoir joints.
Advantages	<ul style="list-style-type: none"> Eliminates time, effort, and equipment for mixing, filling cartridges, pre-heating or thawing, and cleaning of equipment. Fast tack-free and final cure times. High elasticity - cures to a tough, durable, flexible consistency with exceptional cut and tear-resistance. Stress relaxation. Excellent adhesion - bonds to most construction materials without a primer. Excellent resistance to aging, weathering. Proven in tough climates around the world. NSF Registered, meets 1998 USDA guidelines. Odorless, non-staining. Jet fuel resistant. NSF Certified to NSF/ANSI Standard 61 for potable water contact. Urethane-based; suggested by EPA for radon reduction. Paintable with water-, oil- and rubber-based paints. Capable of ±35% joint movement.
Coverage	10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

Shelf Life	10.3 fl. oz. cartridges	15 months
	20 fl. oz. uni-pac sausages	15 months
	5 gallon pail	9 months
	55 gallon drum	9 months
Storage Conditions	Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.	
Colors	White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan. Special architectural colors on request.	
Application Temperature	40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement.	
Service Range	-40° to 170°F	
Curing Rate	Tack-free time	4 hours
	Tack-free to touch	3 hours
	Final cure	4 to 7 days
Tear Strength (ASTM D-624)	55 lb./in.	
Shore A Hardness (ASTM D-2240)	21 day	40±5
Tensile Properties (ASTM D-412)	21 day	
	Tensile Stress	175 psi (1.21 MPa)
	Elongation at Break	550%
	Modulus of Elasticity	25% 35 psi (0.24 MPa)
		50% 60 psi (0.41 MPa)
		100% 85 psi (0.59 MPa)
Adhesion in Peel (TT-S-00230C, ASTM C 794)		
	Substrate	Peel Strength Adhesion Loss
	Concrete	20 lb. 0%
	Aluminum	20 lb. 0%
	Glass	20 lb. 0%
Weathering Resistance	Excellent	
Chemical Resistance	Good resistance to water, diluted acids, and diluted alkalines. Consult Technical Service for specific data.	

