

PRODUCT DATA SHEET

Sikaflex® + Self Leveling Sealant

High performance, self-leveling, 1-part polyurethane sealant

PRODUCT DESCRIPTION

Sikaflex® + Self Leveling Sealant is a single component, self-leveling, premium-grade polyurethane sealant with an accelerated curing capacity. Meets Federal Specification TT-S-00230C, Type 1, Class A. Meets ASTM C-920, Type S, Grade P, Class 25.

USES

Sikaflex® + Self Leveling Sealant is used to seal horizontal expansion joints in concrete and cementitious slabs such as:

- Driveways
- Garages
- Sidewalks
- Balconies
- Pavements
- Terraces
- Warehouses
- Factories
- Civil Structures
- Plazas

CHARACTERISTICS / ADVANTAGES

- 1-component, no mixing
- Self-leveling, pourable
- Accelerated curing
- Permanently elastic
- High durability
- Resists aging, weathering
- Excellent adhesion
- Convenient, easy-to-use packaging
- Paintable with water-based, oil-based or rubber-based paints
- Can be applied to green/new concrete 24 hours after cure
- Can be applied on concrete that has been wet 1 hour after water source has stopped

PRODUCT INFORMATION

Packaging	10.1 fl. oz. (299 ml) moisture proof composite cartridge, 12/case 29 fl. oz. (858 ml) moisture-proof composite cartridges, 12/case
Color	Gray in 10.1 fl. oz. (299 ml) and 29 fl. oz. (858 ml) cartridges. Sandstone in only 29 fl. oz. (858 ml) cartridge
Shelf Life	12 months in original, unopened containers
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

TECHNICAL INFORMATION

Testing	40 ±5 (21 days)			(ASTM D-2240) Tested at: 73 °F (23 °C) 50 % R.H.
Tensile Strength	150 psi (1 MPa) (21 days)			(ASTM D-412) Tested at: 73 °F (23 °C) 50 % R.H.
Tensile stress at specified elongation	110 psi at 100% (0.7 MPa) (21 days)			(ASTM D-412) Tested at: 73 °F (23 °C) 50 % R.H.
Elastic Recovery	> 90 %			
Elongation at Break	450 % (21 days)			(ASTM D-412) Tested at: 73 °F (23 °C) 50 % R.H.
Adhesion in peel	Substrate: <u>Concrete</u>	Peel Strength: > <u>28 pli</u>	Adhesion Loss: <u>0 % Adhesion Loss</u>	(ASTM C-794) Tested at: 73 °F (23 °C) 50 % R.H.
Movement Capability	± 25 %			
Service Temperature	-40 to 170 °F (-40 to 76°C)			

APPLICATION INFORMATION

Coverage

10.1 oz (299 ml) Cartridge: Yield in Linear Feet

	1/4" Depth	3/8" Depth	1/2" Depth
Width			
1/4"	24.3		
3/8"	16.2	10.8	
1/2"	12.1	8.1	6.1
3/4"	8.1	5.4	4.0
1"			3.0
1-1/4"			2.4
1-1/2"			2.0

29 oz (858 ml) Cartridge: Yield in Linear Feet

	1/4" Depth	3/8" Depth	1/2" Depth
Width			
1/4"	69.8		
3/8"	46.5	31.0	
1/2"	34.9	23.3	17.4
3/4"	23.2	15.5	11.6
1"			8.7
1-1/4"			7.0
1-1/2"			5.8

Ambient Air Temperature	40 to 100 °F (4 to 38 °C). Sealant should be installed when joint is at midrange of its anticipated movement
Substrate Temperature	40 to 100 °F (4 to 38 °C). Sealant should be installed when joint is at midrange of its anticipated movement
Cure Time	Final Cure: 3 to 5 days
Tack Free Time	1 to 2 hours

BASIS OF PRODUCT DATA

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

LIMITATIONS

- Allow 1 week cure at standard conditions when using Sikaflex® + Self Leveling Sealant in total water immersion and prior to painting.
- Maximum exposure level of chlorine is 5 ppm.
- In joints subject to movement - maximum depth of sealant must not exceed 1/2 in. (12.7 mm); minimum depth is 1/4 in. (6.3 mm).
- Minimum depth of sealant for horizontal joints subject to traffic is 1/2 in. (12.7 mm).
- Maximum expansion and contraction should not exceed 25 % of average joint width.
- Do not cure in the presence of curing silicone sealants.
- Avoid contact with alcohol and other solvent cleaners during cure.
- When using on green/new concrete, concrete must be good quality and strength, sealing poor or low strength concrete 24 hours after may impact the ability of the sealant to gain proper adhesion.
- On wet concrete, water source must be stopped 1 hour before application and concrete must be free of standing water.
- Do not apply when moisture-vapor-transmission condition exists from the substrate as this can cause bubbling within the sealant.
- Use opened cartridges the same day.
- To avoid bubbling, do not apply when ambient air and substrate temperatures exceed 100o F (38o C). In extreme summertime conditions, preferably install sealant when ambient air and substrate temperatures are falling.
- The ultimate performance of Sikaflex® + Self Leveling Sealant depends on good joint design and proper application with joint surfaces properly prepared.
- Do not use in contact with bituminous / asphaltic materials.
- When overcoating with water-based, oil-based or rubber-based paints, compatibility and adhesion testing of mock-up installations is essential.
- Do not use paints which are silicone based or have a high solvent content. Avoid solvent-based and alcohol-based primers, stains, sealers and coatings.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must

read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. Install bond breaker tape or backer rod to prevent bond at base of joint.

Priming is not usually necessary. Substrates only require priming if testing indicates a need. **Consult Sikaflex Primer Technical Data Sheet** or Technical Service for additional information on priming.

APPLICATION METHOD / TOOLS

Recommended application temperatures: 40 to 100 °F (4 to 38 °C). Condition sealant to 65 to 75 °F (18 to 38 °C) before using. Cut plastic tip to desired size and puncture airtight seal at base of tip. **NOT FOR SLOPED SURFACES.** Maximum sealant depth is 1/2 in. (12.7 mm) and width is 1–1/2 in. (38.1 mm). Minimum depth is 1/4 in. (6.3 mm) and width is 1/4 in. (6.3 mm). Pour sealant into joint slot in one direction and allow sealant to flow and level out as necessary. Tool as required, although minimum tooling is necessary. Proper joint design is 2:1 width to depth ratio. Always use bond breaker tape or closed cell backer rod for support on horizontal joints. For green/new concrete application, 24 hours after concrete has cured. Concrete must be of good quality and strength. Note: Curing will vary depending on temperature and humidity.

- In formed joints, forms must be removed 6 hours before applying sealant.
- In control joints, concrete must be cut 8 hours before applying sealant.

For wet concrete application, water source must be stopped 1 hour before application and concrete must be free of standing water.

Uncured material can be removed with approved solvent. Cured material can only be removed mechanically. For spillage, collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations.

OTHER RESTRICTIONS

See Legal Disclaimer.

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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