

Sikaflex[®]-2c NS TG

Two-component, traffic-grade, polyurethane elastomeric sealant

Construction

Description	Sikaflex-2c NS TG is a premium-grade, polyurethane-based elastomeric sealant. It is principally a chemical cure in a non-sag consistency. Available in 35 standard colors (>320 special colors) with a convenient Color-pak. Also available as a pre-pigmented product in Limestone Gray. Meets ASTM C 920, Type M, Grade NS, use T, NT, O, M, G, A and Federal Specification TT-S-00227E. Product developed by addition of Sikaflex 2c NS TG Component to the standard Sikaflex 2c NS EZ Mix joint sealant.
Where to Use	<ul style="list-style-type: none">■ Applications to include: parking garages, walkways, plazas, platforms, etc., with exposure to foot or pneumatic-tire traffic.■ Intended for horizontal joints with a minimum depth of ¼ inch.■ Placeable at temperatures as low as 40°F.■ Adheres to most substrates commonly found in construction.■ Acceptable for sealing joints in institutions, correctional facilities, etc., as a tamper resistant sealant.
Advantages	<ul style="list-style-type: none">■ Capable of ±25% joint movement.■ Chemical cure allows the sealant to be placed in joints exceeding ½ inch in depth.■ Tough, durable, flexible consistency.■ Exceptional cut and tear resistance.■ Exceptional adhesion to most substrates without priming.■ Color uniformity assured via Color-pak system or pre-pigmented Limestone Gray.■ Fuel resistant.■ No Color-pak needed in pre-pigmented Limestone Gray.
Coverage	1 gal. yields 231 cu. in. or 154 lin. ft. of a 1/2 in. X 1/4 in. joint.
Packaging	Sikaflex 2c NS - 1.5 gal. unit plus, Sikaflex 2c NS TG Component - 1/2 pint can (6- 1/2 pint cans/case). Contents 5.25- fl. oz./can. Color-pak is also purchased separately. Limestone Gray color available pre-pigmented.

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

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	One year in original, unopened containers.
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.
Colors	A wide range of architectural colors are available. Special colors available on request.
Application Temperature	40° to 100°F, ambient and substrate temperatures. Sealant should be installed when joint is at mid-range of its anticipated movement.
Service Range	-40° to 170°F (-40° - 75°C)
Shore A Hardness (ASTM D-2240)	21 day 45 ± 5
Tensile Properties (ASTM D-412)	21 day
Tensile Stress	220 psi
Elongation at Break	300%
Modulus of Elasticity	25% 75 psi
	50% 110 psi
	100% 140 psi
Adhesion in Peel (TT-S-00230C, ASTM C-794)	
Substrate: Concrete	Peel Strength: 25 lb. Adhesion Loss: 0%
Weathering Resistance	Excellent
Chemical Resistance	Good resistance to water, diluted acids, and diluted alkalines. Consult Technical Service for specific data.
Joint Movement Capability	± 25%



How to Use

Surface Preparation

All joint-wall surfaces must be clean, sound, and frost-free. Joint walls must be free of oils, grease, curing compound residues, and any other foreign matter that might prevent bond. Ideally, this should be accomplished by mechanical means. A roughened surface will also enhance bond. Bond breaker tape or backer rod must be used in bottom of joint to prevent bond.

Priming

Priming is typically not necessary. Most substrates only require priming if sealant will be subjected to water immersion after cure. Testing should be done, however, on questionable substrates, to determine if priming is needed. Consult Technical Service or Sikaflex Primer Technical Data Sheet for additional information on priming.

Mixing

Pour entire contents of Component 'B' and (1) 1/2 pint unit of Sikaflex-2c NS TG Component into pail of Component 'A'. For tint base: add entire contents of Color-pak into pail and mix with a low-speed drill (400-600 rpm) and Sikaflex paddle. *Mix for 3-5 minutes to achieve a uniform color and consistency. Scrape down sides of pail periodically. Avoid entrapment of air during mixing.

*For pre-pigmented limestone base: just mix with low speed drill and Sikaflex paddle without Color-pak.

Application

Recommended application temperatures 40°-100°F. Pre-conditioning units to approximately 70°F is necessary when working at extremes. Move pre-conditioned units to work areas just prior to application.

Apply sealant only to clean, sound, dry, and frost-free substrates. Sikaflex-2c NS TG should be applied into joints when joint slot is at mid-point of its designed expansion and contraction.

To place NS TG, load directly into bulk gun or use a follower plate loading system. Place nozzle of gun into bottom of joint and fill entire joint. Keeping the nozzle deep in the sealant, continue with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air. Tool as required. Proper design is 2:1 width to depth ratio.

Limitations

- The ultimate performance of Sikaflex 2c NS TG depends on good joint design and proper application.
- Minimum depth in working joint is 1/4 in; maximum depth for working joint is 1/2 in.
- Maximum expansion and contraction should not exceed 25% of average joint width.
- Do not cure in the presence of curing silicones.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Allow 3-day cure before subjecting sealant to total water immersion and prior to painting.
- Do not apply when moisture vapor transmission exists since this can cause bubbling within the sealant.
- Avoid over-mixing sealant.
- White color tends to yellow over time when exposed to ultraviolet rays.
- When over-coating: an on-site test is recommended to determine actual compatibility.
- The depth of sealant in horizontal joints subject to traffic is 1/2 in.
- Avoid exposure to high levels of chlorine. (Maximum continuous level is 5 ppm).
- Do not tool with detergent or soap solutions.
- Protect Sikaflex-2c NS TG Component from moisture. Use entire contents of container.
- Maximum addition rate of TG Component is (1) 1/2 pint container/unit of Sikaflex-2c NS.
- Do not use in contact with bituminous/asphaltic materials.

Caution

Component 'A'; Irritant - Avoid contact. Product is a skin, respiratory and eye irritant. Use of safety goggles and chemical resistant gloves recommended. Use of a NIOSH approved respirator required if PELs are exceeded. Use with adequate ventilation.

Component 'B'; Combustible; Sensitizer; Irritant - Contains Xylene. Keep away from heat, sparks and open flame. Use with adequate ventilation. Product is a respiratory and skin sensitizer. Avoid contact. Product is an eye, skin, and respiratory irritant. Use of safety goggles and chemical resistant gloves recommended. Use of a NIOSH approved respirator required if PELs are exceeded.

Sikaflex 2c NS TG Component; Irritant; Sensitizer; Combustible - Contains Xylene, Isocyanate. Keep away from heat, sparks, and open flame. Use with adequate ventilation. Avoid skin contact. Product is an eye, skin, and respiratory irritant. Product is a respiratory and skin sensitizer. Use of goggles and chemical resistant gloves recommended. Use of a NIOSH approved respirator required if PELs are exceeded.

First Aid

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes; contact physician. For respiratory problems, remove to fresh air. In case of ingestion, dilute with water and milk; contact a physician. Wash clothing before re-use. Discard contaminated shoes.

Clean Up

Uncured material can be removed with approved solvent. Cured material can only be removed mechanically. In case of spillage, wear suitable protective equipment, collect with absorbent materials and dispose of in accordance with current, applicable local, state, and federal regulations.

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

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