

PRODUCT DATA SHEET

Sikaflex[®]-2c NS TG

TWO-COMPONENT, TRAFFIC-GRADE, POLYURETHANE ELASTOMERIC SEALANT

PRODUCT 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 Colorpak. 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.

USES

- 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 1/2 in. (12.7 mm)
- Placeable at temperatures as low as 40 °F (4 °C)
- Adheres to most substrates commonly found in construction
- Acceptable for sealing joints in institutions, correctional facilities, etc., as a tamper resistant sealant

CHARACTERISTICS / ADVANTAGES

- Capable of ± 25 % joint movement
- Chemical cure allows the sealant to be placed in joints exceeding 1/2 inch (25.4 mm) 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
- No Color-pak needed in pre-pigmented Limestone Gray
- Fuel resistant

PRODUCT INFORMATION

Packaging	1.5 gal. unit (5.7 L) of Sikaflex 2c NS EZ Mix plus 2.63 fl. oz. (0.08 L) of Sikaflex NS TG component. Color-pak is also purchased separately. Limestone Gray color available pre-pigmented
Color	A wide range of architectural colors are available. Special colors available on request
Shelf Life	12 months in original, unopened containers

Storage Conditions

Store dry at 40–95 °F (4–35 °C).
Condition material to 65–75 °F (18–24 °C) before using.

TECHNICAL INFORMATION

Shore A Hardness	45 ± 5	(21 days at 73 °F (23 °C) and 50 % R.H.) (ASTM D-2240)
Tensile Strength	220 psi	(21 days at 73° F (23° C) and 50% R.H.)(ASTM D-412)
Tensile Stress at Specified Elongation	140 psi at 100 %	(21 days at 73° F (23° C) and 50 % R.H.) (ASTM D-412)
Elongation at Break	300 %	(21 days at 73 °F (23 °C) and 50 % R.H.) (ASTM D-412)
Adhesion in Peel	Concrete Peel Strength: 25 lb. (11.3 kg) Adhesion Loss: 0 %	(73 °F (23 °C) 50 % R.H.) (TT-S-00230C, ASTM C-794)
Movement Capability	± 25 %	
Chemical Resistance	Good resistance to water, diluted acids, and diluted alkalines. Consult Technical Service at 1-800-933-SIKA for specific data.	
Resistance to Weathering	Excellent	
Service Temperature	-40–170 °F (-40–75 °C)	

APPLICATION INFORMATION

Coverage	1 gallon: Yield in Linear feet			
	Width/Depth	1/4"	3/8"	1/2"
1/4"		307.9		
3/8"		205.3	136.8	
1/2"		153.9	102.6	77.0
3/4"		102.6	68.4	51.3
1"				38.5
1.25"				30.8
1.5"				25.7

Ambient Air Temperature	40–100 °F, ambient and substrate temperatures. Sealant should be installed when joint is at mid-range of its anticipated movement.
Substrate Temperature	40–100 °F, ambient and substrate temperatures. Sealant should be installed when joint is at mid-range of its anticipated movement.

APPLICATION INSTRUCTIONS**SUBSTRATE 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 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 METHOD / TOOLS

Recommended application temperatures 40–100 °F (4–38°C). Pre-conditioning units to 65–75 °F (18–24 °C) 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 Sikaflex 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.

Tooling and Finishing

Tool as required. Proper design is 2:1 width to depth ratio.

Removal

Uncured material can be removed with xylene. Strictly follow solvent manufacturer's warnings and instructions for use. 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.

LIMITATIONS

- The ultimate performance of Sikaflex®-2c NS TG depends on good joint design and proper application.
- Sealant depth for horizontal joint subject to traffic must be 1/2 in. (12.7 mm)
- Maximum expansion and contraction should not exceed 25 % of average joint width.
- Protect Sikaflex®-2c NS TG Component from moisture. Use entire contents of container.
- Maximum addition rate of TG Component is one 2.63 fl oz or (0.2 L) container/unit of Sikaflex®-2c NS TG.
- 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. Primer is required if sealant will be subjected to total water immersion.
- 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 and adhesion.
- Rigid coatings, paints or primers can crack when applied over elastomeric sealants that experience movement.
- Avoid exposure to high levels of chlorine. (Maximum continuous level is 5 ppm).
- Do not tool with detergent or soap solutions.
- Do not use in contact with bituminous/asphaltic materials.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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