

Product Data Sheet

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 Sikaflex® 2c NS EZ Mix TG

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Multi-Component, Traffic-Grade, Polyurethane Elastomeric Sealant

Description	Sikaflex® 2c NS EZ Mix TG is a multi-component, premium-grade, polyurethane-based, elastomeric sealant. It is principally a chemical cure in a non-sag consistency. Product developed by addition of Sikaflex® 2c NS EZ Mix TG Component to the Sikaflex® 2c NS EZ Mix joint sealant.
Where to Use	<ul style="list-style-type: none"> ■ Parking garages, walkways, plazas, platforms, etc., with exposure to foot or pneumatic-tire traffic. ■ Intended for horizontal joints with a minimum depth of 6 mm (1/4 in). ■ Can be applied at temperatures as low as 4°C (39°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 13 mm (1/2 in) in depth. ■ Tough, durable, flexible consistency. ■ Exceptional cut and tear resistance. ■ Exceptional adhesion to most substrates without priming. ■ Available in 35 standard colours with a convenient Color-pak. ■ Colour uniformity assured via Color-pak system or pre-pigmented Limestone Grey. ■ Fuel resistant. ■ Meets ASTM C 920, Type M, Grade NS, use T, NT, M, G, A, O. ■ Meets Federal Specification TT-S-00227E. ■ Meets CAN/CGSB 19.24 - M90.

Technical Data

Packaging	Sikaflex® 2c NS EZ Mix - 5.7 L (1.5 US gal.) unit plus, Sikaflex® 2c NS EZ Mix TG Component - 236 mL (8 fl. oz) can (6 cans/case) Color-pak sold separately
Colours	A wide range of architectural colours are available. Special colours available on request.
Yield	1 Booster-pak per 5.7 L (1.5 US gal.) units of Sikaflex® 2c NS EZ Mix.
Shelf Life	1 year in original, unopened packaging. Store dry between 4° - 35°C (39° - 95°F). Condition product at 18° - 24°C (65° - 75°F) before using.

Properties at 23°C (73°F) and 50% R.H.

Application Temperature	4° to 38°C (39° 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 77°C (-40° to 170°F)	
Shore A Hardness ASTM D 2240, 21 days	45 ± 5	
Tensile Properties ASTM D 412, 21 days		
Tensile stress	1.52 MPa (220 psi)	
Elongation at break	300%	
Modulus of elasticity	25%	0.52 MPa (75 psi)
	50%	0.76 MPa (110 psi)
	100%	0.97 MPa (140 psi)
Adhesion in Peel (TT-S-00230C, ASTM C 794)		
Substrate	Peel Strength	% Adhesion Loss
Concrete	4.38 N/mm (25 lb/in)	Zero
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 interfaces must be clean, sound, and frost-free. Joint interfaces 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. 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® Primers Technical Data Sheet for additional information on priming.
Mixing	Pour entire contents of Component B and one (1) unit [236 mL (8 fl oz)] of Sikaflex® 2c NS EZ Mix 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 proper mixing paddle. Mix for 3-5 min to achieve a uniform colour and consistency. Scrape down sides of pail periodically. Avoid entrapment of air during mixing. Note: For pre-pigmented Limestone base, just mix with low speed drill and proper mixing paddle (no Color-pak needed).
Application	Recommended application temperatures 5° - 38°C (40° - 100°F). Pre-conditioning units to approximately 21°C (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 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 joint design for moving joints is 2:1 width to depth ratio, with a recommended 6 mm (1/4 in) minimum and 13 mm (1/2 in) maximum depth of sealant. For non-moving joints, the width to depth ratio can vary.
Clean Up	Uncured material can be removed with Sika® Equipment Cleaner/Epoxy Thinner or Sika® Hand Cleaner. Cured material can only be removed mechanically.
Limitations	<ul style="list-style-type: none"> ■ The ultimate performance of Sikaflex® 2c NS EZ Mix TG depends on good joint design and proper application. ■ Some substrates require priming. Please refer to the Sikaflex® Primers Technical Data Sheet or consult with Sika Technical Services. ■ Minimum depth in working joint is 6 mm (1/4 in) and maximum depth is 13 mm (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. ■ Avoid exposure to high levels of chlorine. (Maximum level is 5 ppm). ■ Do not apply when moisture vapour transmission exists since this can cause bubbling within the sealant. ■ Avoid over-mixing sealant. ■ White colour tends to yellow over time when exposed to ultraviolet rays. ■ When overcoating, an on-site test is recommended to determine actual compatibility. ■ The depth of sealant in horizontal joints subject to traffic is 13 mm (1/2 in). ■ Do not tool with detergent or soap solutions. ■ Protect Sikaflex® 2c NS EZ Mix TG Component from moisture. Use entire contents of container. ■ Maximum addition rate of TG Components is one container/unit 236 mL (8 fl. oz) per 5.7 L (1.5 US gal.) of Sikaflex® 2c NS EZ Mix.
Caution	<p>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 TLVs are exceeded. Use with adequate ventilation.</p> <p>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 TLVs are exceeded.</p> <p>Sikaflex® 2c NS EZ Mix 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 safety goggles and chemical resistant gloves recommended. Use of a NIOSH approved respirator required if TLVs are exceeded.</p>
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.

For more information, consult Sika Material Safety Data Sheet.

**KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY**

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelf life. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed in the Internet under www.sika.ca.

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