

Sikaflex® 2c NS EZ Mix TG

Multi-Component, Traffic-Grade, Elastomeric Polyurethane Sealant

Description Sikaflex® 2c NS EZ Mix TG is a premium-grade, multi-component and polyurethane-based, elastomeric sealant. It is principally a chemical cured material of a non-sag consistency. This material is produced through the on-site addition of a Sikaflex® 2c NS EZ Mix TG Component to Sikaflex® 2c NS EZ Mix.

Where to Use

- Parking structures, 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

- 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 C920, 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/case) Maximum 1 x 236 mL (8 fl. oz) can TG Component per 5.7 L unit of Sikaflex® 2c NS EZ Mix Color-pak and Sikaflex® 2c Booster sold separately.					
Colours	A wide range of architectural colours are available. Special colours available on request.					
Yield Width	Linear Metre of Sealant per Litre					
mm (in)	Depth					
	6 (¼)	13 (½)	19 (¾)	25 (1)	32 (1¼)	38 (1½)
6 (¼)	24.8					
13 (½)	12.4					
19 (¾)	8.3					
25 (1)	6.2					
32 (1¼)	5.0					
38 (1½)	4.1					
Shelf Life	1 year in original, unopened packaging. Store dry between 4 and 35°C (39 and 95°F). Condition product between 18 and 24°C (65 and 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)					
Curing Rate ASTM C679	Tack-free 8 - 10 hrs Final cure 3 days					
Working Time 5.7 L (1.5 US gal.) unit	4°C (39°F)		23°C (73°F)		38°C (100°F)	
Sikaflex® 2c NS EZ Mix TG	6 hrs		4 - 6 hrs		3 hrs	
With 1 Cold Weather Booster	2 - 3 hrs		2 hrs		1 hr	
With 2 Cold Weather Boosters	1 hr 30 min		1 hr		< 1 hr	
Shore A Hardness ASTM D2240,	21 days 45 ± 5					
Tensile Properties ASTM D412, 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 C794)						
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 Sika Canada's Technical Service for specific data.					

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.



How to Use

Surface Preparation

All joint surfaces must be clean, sound, dry and frost-free. Joint walls must be free of oils, tar, asphalt, bitumen, grease, paints, coatings, sealers, curing compound residues, and any other foreign matter that might prevent adhesion. 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 Sika Canada's Technical Service or Sikaflex® Primers Product 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. 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 to 5 minutes to achieve a uniform colour and consistency. Scrape down sides of pail periodically. Avoid entrapment of air during mixing.

Note: When mixing in cold weather < 10°C (50°F), do not force the mixing paddle to the bottom of the pail. After adding Component B and Color-pak into Component A, mix the top 1/2 to 3/4 of the pail during the first minute of mixing. After scraping down the sides of the pail, mix again for another minute. The paddle should reach the bottom of the pail between the first and second minute of mixing. Scrape down the sides of the pail a second time and then mix for an additional 2 to 3 minutes until the sealant is well blended. When using Sikaflex® 2c Booster, add entire contents into Component A prior to mixing.

Note: For pre-pigmented Limestone Grey, just mix with low speed drill and Sikaflex® paddle (no Color-pak needed).

Application

Recommended application temperatures: 4 to 38°C (39 to 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 NS EZ Mix TG should be applied into joints when joint slot is at mid-point of its designed expansion and contraction. To place, 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 nozzle to avoid air entrapment. Also, avoid overlapping of sealant since this also entraps 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. To accelerate the cure of Sikaflex® 2c NS EZ Mix TG in cold weather temperatures, add Sikaflex® 2c Booster.

Clean Up

Uncured material can be removed from equipment and tools using Sika® Equipment Cleaner. Cured material can only be removed manually or mechanically. For removal of uncured material from hands and sensitive surfaces, use Sika® Hand Cleaner towels.

Limitations

- 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 Product Data Sheet or consult with Sika Canada's Technical Services.
- Although applying sealants over paints, sealers or coatings is not recommended within the industry, where it cannot be avoided, it is always necessary to test for adhesion. It should also be recognized that the existing paint, sealer or coating will dictate bond values and possibly the integrity of a subsequently applied sealant and thus the performance of the joint.
- 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.
- Avoid contact with materials or surfaces impregnated with, or containing, oil, asphalt, tar or bituminous substances.
- Do not apply or cure in the presence of uncured silicone sealants, alcohol and other solvent cleaners..
- 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 Sikaflex® 2c NS EZ Mix TG Component is one container/unit 236 mL (8 fl. oz) per 5.7 L (1.5 US gal.) of Sikaflex® 2c NS EZ Mix.



Construction

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the **most recent Material Safety Data Sheet** containing physical, ecological, toxicological and other safety-related data.

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 Product 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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