BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET

Sikaflex®-2c NS TG+

Traffic-grade additive for Sikaflex®-2c NS EZ MIX+

PRODUCT DESCRIPTION

Sikaflex®-2c NS TG+ is a premium-grade, polyurethane-based, additive for use in Sikaflex®-2c NS EZ Mix+ sealant. It is an additive that helps cure the sealant with a higher Shore A hardness for use in Traffic Grade applications in a non-sag consistency. When mixed with Sikaflex®-2c EZ MIX+, it is available in 11 standard colours and special colours with a convenient Color-Pak. Also available as a pre-pigmented product in Limestone Grey.

WHERE TO USE

Sikaflex®-2c NS TG+ is Intended for horizontal joints with a minimum depth of 13 mm (1/2 in) in structures exposed to foot or pneumatic-tire traffic such as:

- Parking garages
- Walkways
- Plazas
- Platforms, etc.

CHARACTERISTICS / ADVANTAGES

(When used with Sikaflex®-2c NS EZ Mix+)

- Capable of ± 35 % joint movement
- May be placed at temperatures as low as 4 °C (40 °F)
- Compatible with most substrates found in construction without priming
- Chemical cure allows the sealant to be placed in joints exceeding 13 mm (1/2 in) in depth
- Tough, durable, flexible consistency
- Exceptional resistance to cut and tear
- Colour uniformity assured via Color-pak system or pre-pigmented Limestone
- No Color-pak needed in pre-pigmented Limestone
- Jet fuel resistant

APPROVALS / CERTIFICATES

- ASTM C920, Type M, Grade NS, use T, NT, O, M, G, A,
- Federal Specification TT-S-00227E

PRODUCT INFORMATION

Packaging	0.57 L (0.15 US gal) can (6 cans per carton)
Colour	Clear **Note:** A wide range of architectural colours are available for use with Sikaflex®-2c NS EZ Mix. Special colors available on request
Shelf Life	12 months in original, unopened container
Storage Conditions	Store dry at temperatures between 4 °C and 35 °C (40 °F and 95 °F). Ccondition product at temperatures between 18 °C and 24 °C (65 °F and 75 °F) before use.

TECHNICAL INFORMATION

Shore A Hardness	40 ± 5	(after 21 days at 23 °C (73 °F) and 50 % R.H.) (ASTM C661)
Tensile Strength	170 psi	(after 7 days at 23 °C (73 °F) and 50 % R.H.) (ASTM D412)
Tear Strength	< 35 lbf/in	(after 7 days at 23 °C (73 °F) and 50 % R.H.) (ASTM D624)
Movement Capability	± 35 %	
Resistance to Weathering	Excellent	
Elongation at break	580 %	(after 7 days at 23 °C (73 °F) and 50 % R.H.) (ASTM D412)
Consumption		
Yield	1 gallon of Sikaflex®-2c NS EZ Mix+ & Sikaflex®-2c NS TG+: Yield in Linear feet	

Width/Depth	6 mm (1/4 in)	9.5 mm (3/8 in)	13 mm (1/2 in)
6 mm (1/4 in)	307.9		
9.5 m (3/8 in)	205.3	136.8	
13 mm (1/2 in)	153.9	102.6	77.0
19 mm (3/4 in)	102.6	68.4	51.3
25 mm (1 in)			38.5
32 mm (1.25 in)			30.8
38 (1.5 in)			25.7

1 litre of Sikaflex®-2c NS EZ Mix+ & Sikaflex®-2c NS TG+: Yield in Linear meter

Width/Depth	6 mm (1/4 in)	9.5 mm (3/8 in)	13 mm (1/2 in)
6 mm (1/4 in)	24.8		
9.5 m (3/8 in)	16.5	11.0	
13 mm (1/2 in)	12.4	8.2	6.2
19 mm (3/4 in)	8.2	3.1	4.1
25 mm (1 in)			3.1
32 mm (1.25 in)			2.4
38 (1.5 in)			2.0

Ambient Air Temperature	4 °C to 37 °C (40 °F to 100 °F) Sealant should be installed when joint is at mid-range of its anticipated movement.
Substrate Temperature	4 °C to 37 °C (40 °F to 100 °F) Sealant should be installed when joint is at mid-range of its anticipated movement.
Application Time	Sikaflex®-2c NS TG+ with Sikaflex®-2c EZ Mix+ 3 hours at 23 °C (73 °F)

BASIS OF PRODUCT 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.

LIMITATIONS

- Review the Sikaflex®-2c NS EZ Mix+ Product Data Sheet before proceeding with Sikaflex®-2c NS TG+ as an additive.
- The ultimate performance of Sikaflex®-2c NS TG+ depends on good joint design and proper application.
- Technical Information listed in this product data sheet is based off Sikaflex®-2c NS TG+ used with Sikaflex®-2c NS EZ Mix+.

- Sealant depth for horizontal joint subject to traffic must be 13 mm (1/2 in).
- Maximum expansion and contraction should not exceed 50 % of average joint width.
- Protect Sikaflex®-2c NS TG+ Component from moisture. Use entire contents of container.
- Maximum addition rate of Sikaflex®-2c NS TG+ Component is one (1) 234 mL (7.9 fl. oz.) container per 5.68 L (1.5 US gal) unit of Sikaflex®-2c NS EZ Mix+.
- Do not cure in the presence of curing silicones. Avoid contact with alcohol and other solvent cleaners during cure.
- Allow three (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 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 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

ENVIRONMENT, HEALTH & 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

All joint-wall surfaces must be clean, sound, and frost-free. Joint walls must be free of oil, grease, curing compound residues, and any other foreign matter that might prevent bond. Ideally, this preparation 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

Sikaflex®-2c NS TG+ must be used with Sikaflex®-2c NS EZ Mix+.

Pour entire contents of Sikaflex®-2c NS TG+ and B Component into pail of the A Component of the Sikaflex®-2c NS EZ Mix+. 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 three (3) to five (5) minutes to achieve a uniform colour and consistency. Scrape down sides of pail periodically. Avoid entrapment of air during mixing. For prepigmented limestone base: simply mix with low speed drill and Sikaflex® paddle without Color-pak. Refer to Sikaflex®-2c NS EZ Mix+ Product Data Sheet for detailed mixing instructions.

APPLICATION METHOD / TOOLS

Recommended application temperatures: 4 °C to 38 °C (40 °F to 100 °F)

Pre-conditioning units to 18 °C to 24 °C (65 °F to 75 °F) is necessary when working at extremes temperatures. Move preconditioned 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®-2c 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. Refer to Sikaflex®-2c NS EZ Mix+ Product Data Sheet for detailed application instructions.

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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

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 in accordance with Sika's recommendations. 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 information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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