BUILDING TRUST
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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 colours (> 320 special colours) with a convenient Colorpak.

WHERE TO USE

- Applications to include: parking garages, walkways, plazas, platforms, etc., with exposure to foot or pneumatic-tire traffic
- Acceptable for sealing joints in institutions, correctional facilities, etc., as a tamper resistant sealant
- Intended for horizontal joints with a minimum depth of 12.7 mm (1/2 in)
- Chemical cures allows the sealant to be placed in joints exceeding 25.4 mm (1 in) in depth

CHARACTERISTICS / ADVANTAGES

- Capable of ± 25 % joint movement
- Placeable at temperatures as low as 4 °C (40 °F)
- Tough, durable, flexible consistency
- Exceptional cut and tear resistance
- Exceptional adhesion to most commonly found substrates without priming
- Colour uniformity assured via Color-pak system
- Jet fuel resistant

APPROVALS / CERTIFICATES

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

PRODUCT INFORMATION

CSC MasterFormat®	07 92 13 - ELASTOMERIC JOINT SEALANTS
Packaging	5.7 L unit (1.5 US gal.) + 75 mL (2.63 fl. oz.) TG component. Color-pak are sold separately.
Shelf Life	12 months in original, unopened containers
Storage Conditions	Store dry at 4 °C – 35 °C (40 °F – 95 °F). Condition material to 18 °C – 24 °C (65 °F – 75 °F) before using.

Colour	A wide range of architectural colours are available. Special colours available on request

TECHNICAL INFORMATION

Shore A Hardness	45 ± 5	21 days at 23 °C (73 °F) and 50 % R.H. (ASTM D2240)
Tensile Strength	1.5 MPa (220 psi)	21 days at 23 °C (73 °F) and 50% R.H.(ASTM D412)
Tensile Stress at Specified Elongation	0.97 MPa (140 psi) at 100 %	21 days at 23 °C (73 °F) and 50 % R.H. (ASTM D412)
Elongation at Break	300 %	21 days at 73 °F (23 °C) and 50 % R.H. (ASTM D412)
Movement Capability	± 25 %	
Adhesion in Peel	Concrete Peel Strength: 11.3 kgf (25 lbf.) Adhesion Loss: 0 %	23 °C (73 °F) 50 % R.H. (TT-S-00230C, ASTM C794)
Service Temperature	-40 °C – 75 °C (-40 °F – 170 °F)	
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	

APPLICATION INFORMATION

Yield

3.78 L (1 US gal.): Yield in Linear metres (feet)

Width/Depth	6 mm (1/4 in)	9.5 mm (3/8 in)	12 mm (1/2 in)
6 mm (1/4 in)	93.8 mm (307.9 in)		
9.5 mm (3/8 in)	62.5 mm (205.3 in)	41.7 mm (136.8 in)	
12 mm (1/2 in)	46.9 mm (153.9 in)	31.2 mm (102.6 in)	23.4 mm (77.0 in)
19 mm (3/4 in)	31.2 mm (102.6 in)	20.8 mm (68.4 in)	15.6 mm (51.3 in)
25 mm (1 in)			11.7 mm (38.5 in)
31 mm (1.25 in)			9.3 mm (30.8 in)
38 mm (1.5 in)			7.8 mm (25.7 in)

Ambient Air Temperature	4 °C – 37 °C (40 °F – 100 °F), ambient and substrate temperatures. Sealant should be installed when joint is at mid-range of its anticipated movement.
Substrate Temperature	4 °C – 37 °C (40 °F – 100 °F), ambient and substrate temperatures. Sealant should be installed when joint is at mid-range of its anticipated movement.

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

- 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 12.7 mm (1/2 in)
- Maximum expansion and contraction should not exceed 25 % of average joint width.
- Protect Sikaflex®-2c NS TG Component from moisture. Use the entire content of container.
- Maximum addition rate of TG Component is (1) 75 mL (2.63 fl. oz.) container/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) days 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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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

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, provincial, 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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