

## PRODUCT DATA SHEET

# Sikaflex®-2c NS EZ Mix+

Two-component, non-sag, polyurethane elastomeric Class 50 sealant

### PRODUCT DESCRIPTION

Sikaflex®-2c NS EZ Mix+ is a 2-component, premium-grade, polyurethane-based, elastomeric sealant. It is principally a chemical cure in a non-sag consistency. Meets ASTM C920, Type M, Grade NS, Class 50, Use T, NT, M, A, O, I and Federal specification TT-S-00227 E, Type II, Class A. Meets Canada Standard CAN/CGSB 19.24 - M90.

### WHERE TO USE

- Intended for use in all properly designed working joints with a minimum depth of ¼ inch.
- An effective sealant for use in Exterior Insulation Finish Systems (EIFS).
- Submerged environments, such as canal and reservoir joints.

### CHARACTERISTICS / ADVANTAGES

- True Movement Capability Class 50 sealant.
- Chemical cure allows the sealant to be placed in joints exceeding ½ in. in depth.
- Ideal for vertical and horizontal applications.
- Placeable at temperatures as low as 4 °C (40 °F).
- Adheres to most substrates commonly found in construction.
- High elasticity with a tough, durable, flexible consistency.
- Exceptional cut and tear resistance.
- Exceptional adhesion to most substrates without priming.
- Can be mixed in the field with Universal Color-Pak.
- Non-sag even in wide joints.
- Easy to mix.
- Can be applied to green concrete 24 hours after pour.
- Can be applied to damp concrete 60 minutes after

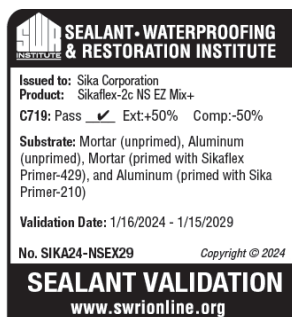
- getting wet.
- Paintable with water-, oil-, and rubber-base paints.
- Jet fuel resistant.
- Tested Joining and Sealing Material for Drinking Water Systems (UL file no. MH17464).
- Tested in fire-rated assemblies.

### ENVIRONMENTAL INFORMATION

- Contributes towards satisfying LEED® v4 EQ Credit - Low-Emitting Materials
- Contributes towards satisfying LEED®v4 MR Credit - Building Product Disclosure and Optimization - Material Ingredients (Option 1)
- Contributes towards satisfying LEED®v4 MR Credit - Building Product Disclosure and Optimization - Sourcing of Raw Materials

### APPROVALS / CERTIFICATES

- ASTM C920, Type M, Grade NS, Class 50, Use T, NT, O, M, A, I
- SWRI validated acc. to ASTM C719 (SIKA24-NSEX29)
- Federal specification TT-S-00227 E, Type II, Class A
- Canadian Standard CAN/CGSB 19.24-M90
- Certified to NSF/ANSI/CAN 61 for potable water (meets applicable requirements of NSF/ANSI 600).
- 2-hour UL Fire Rated Joint System (UL file nos. FF-S-1034, FW-S-1020, HW-S-1018, WW-S-1037).



## PRODUCT INFORMATION

<b>Packaging</b>	5.67 L (1.5 US gal.) unit. 11.35 L (3 US gal.) unit.
<b>Colour</b>	A wide range of architectural colors are available. Special colors available on request.
<b>Shelf Life</b>	One year in original, unopened containers.
<b>Storage Conditions</b>	Store dry at 4–35 °C (40–95 °F). Condition material to 18–24 °C (65–75 °F) before using.

## TECHNICAL INFORMATION

<b>Shore A Hardness</b>	25	(after 21 days at 23 °C (73 °F) and 50 % R.H.) (ASTM C-661)
<b>Tensile Strength</b>	0.81 MPa (118 psi)	(after 7 days at 23 °C (73 °F) and 50 % R.H.) (ASTM D-412)
<b>Elongation at Break</b>	974 %	(after 7 days at 23 °C (73 °F) and 50 % R.H.) (ASTM D-412)
<b>Tear Strength</b>	> 6 N/mm (34 lbf./in.)	(after 7 days at 23 °C (73 °F) and 50 % R.H.) (ASTM D-624)

## APPLICATION INFORMATION

<b>Consumption</b>	<b>1 gallon: yield in linear feet</b>			
	<b>Width/Depth</b>	<b>6 mm (1/4")</b>	<b>9.5 mm (3/8")</b>	<b>13 mm (1/2")</b>
	6 mm (1/4")	307.9		
	9.5 mm (3/8")	205.3	136.8	
	13 mm (1/2")	153.9	102.6	77.0
	19 mm (3/4")	102.6	38.4	51.3
	25 mm (1")			38.5
	32 mm (1.25")			30.8
	38 (1.5")			25.7
	<b>1 litre: yield in linear metre</b>			
	<b>Width/Depth</b>	<b>6 mm (1/4")</b>	<b>9.5 mm (3/8")</b>	<b>13 mm (1/2")</b>
	6 mm (1/4")	24.8		
	9.5 mm (3/8")	16.5	11.0	
	13 mm (1/2")	12.4	8.2	6.2
	19 mm (3/4")	8.2	3.1	4.1
	25 mm (1")			3.1
	32 mm (1.25")			2.4
	38 (1.5")			2.0
<b>Ambient Air Temperature</b>	+4 to +38 °C (40 °F to 100 °F) Sealant should be installed when joint is at mid-range of its anticipated movement.			

<b>Substrate Temperature</b>	+4 to +38 °C (40 °F to 100 °F) Sealant should be installed when joint is at mid-range of its anticipated movement.		
<b>Curing Time</b>	3 days	23 °C (73 °F) and 50 % R.H.	(ASTM C-679)
<b>Application Time</b>	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

- The ultimate performance of Sikaflex®-2c NS EZ Mix+, depends on good joint design and proper application.
- Minimum depth in working joint is 6 mm (1/4 in).
- Maximum depth in working joint is 13 mm (1/2 in).
- Maximum expansion and contraction should not exceed 50 % of average joint width.
- Sikaflex®-2c NS EZ Mix+ is not approved for use with Sikaflex 2C NS TG (Traffic Grade) Additive to increase durability.
- 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.
- Avoid exposure to high levels of chlorine. (Maximum level is 5 ppm).
- 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 slightly when exposed to ultraviolet rays.
- Light colors can yellow if exposed to direct gas fired heating elements.
- When overcoating, an on-site test is recommended to determine actual compatibility.
- Rigid paints, coatings or primers will crack when placed over elastomeric sealants experiencing expansion or contraction
- 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 surfaces must be clean, sound, 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, substrate preparation and foreign matter removal should be accomplished by mechanical means. Bond breaker tape or backer rod must be used in bottom of joint to prevent three-sided adhesion, and control the depth of the sealant. 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. Note: Most Exterior Insulation Finish Systems (EIFS) manufacturers recommend the use of a primer. When EIFS manufacturer specifies a primer or if on-site bond testing indicates a primer is necessary, Sikaflex 429 primer is recommended. On-site adhesion testing is recommended with final system prior to the start of a job.

## MIXING

Pour entire contents of Component 'B' 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 3–5 minutes to achieve a uniform color and consistency. Scrape down sides of pail periodically. Avoid entrapment of air during mixing. 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 2–3 minutes until the sealant is well blended. Color-pak must be used with tint base. For pre-pigmented Limestone base, just mix with low speed drill and proper mixing paddle (no Color-pak needed).

## APPLICATION METHOD / TOOLS

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

### Tooling and Finishing

Tool sealant to ensure full contact with joint walls and remove air entrapment. Joint dimension should allow for 6 mm (1/4 in) minimum and 13 mm (1/2 in) maximum thickness for sealant. Proper design is 2:1 width to depth ratio.

### Removal

Uncured material can be removed from equipment and tools using Sika Cleaning Wipes or a solvent, such as xylene. Strictly follow solvent manufacturer's warnings and instructions for use. Cured material can only be removed manually or mechanically.

## 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](http://www.sika.ca)

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#### Product Data Sheet

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