BUILDING TRUST

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.

USES

- Intended for use in all properly designed working joints with a minimum depth of ¼ inch.
- Ideal for vertical and horizontal applications.
- Placeable at temperatures as low as 40 °F.
- Adheres to most substrates commonly found in construction.
- 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.
- 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

- CDPH/EHLB/Standard Method V1.2-2017
- LEED® Version 4/4.1
- SCAQMD, Rule 1168
- BAAQMD, Reg. 8, Rule 51

APPROVALS / STANDARDS

- 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

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

TECHNICAL INFORMATION

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

APPLICATION INFORMATION

Coverage

1 gallon: Yield in Linear feet

Width/Depth	1/4"	3/8"	1/2"
1/4"	307.9		
3/8"	205.3	136.8	
1/2"	153.9	102.6	77.0
3/4"	102.6	38.4	51.3
1"			38.5
1.25"			30.8
1.5"			25.7

Ambient Air Temperature	40 °F to 100 °F Sealant should be installed when joint is at mid-range of its anticipated movement.
Substrate Temperature	40 °F to 100 °F Sealant should be installed when joint is at mid-range of its anticipated movement.
Cure Time	3 days (73 °F (23 °C) and 50 % R.H.)(ASTM C-679)
Application Time	3 hours at 73 °F

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- The ultimate performance of Sikaflex®-2c NS EZ Mix+, depends on good joint design and proper application.
- Minimum depth in working joint is 1/4 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.

ENVIRONMENTAL, HEALTH AND 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

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 Sikaflex 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 (<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 Sikaflex paddle (no Color-pak needed).

APPLICATION METHOD / TOOLS

Recommended application temperatures 40–100 °F. Pre-conditioning units to 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 1/4 inch minimum and 1/2 inch maximum thickness for sealant. 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. For spillage, collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

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