

PRODUCT DATA SHEET

Sikaflex® NP 2

(formerly MSeal NP 2)

MULTI-COMPONENT HIGH PERFORMANCE POLYURETHANE SEALANT

PRODUCT DESCRIPTION

Sikaflex® NP 2 is a multi-component, highly flexible, non-priming, high performance polyurethane sealant. It has been successfully tested for joint movement of $\pm 50\%$. It can be tinted to multiple colors.

USES

- Interior and exterior
- Above and below grade
- Immersed in water
- Expansion joints
- Panel walls
- Precast units
- Aluminum and wood window frames
- Roofing
- Fascia
- Parapets
- Vinyl siding
- Storefront assemblies
- Parking structures

CHARACTERISTICS / ADVANTAGES

- Movement capability of $\pm 50\%$ adds protection against unanticipated movement
- Weather resistant for long-lasting weathertight seals
- Easy to gun and tool to speed up application and make neater joints
- No primer required for most construction materials
- Wide temperature application range makes Sikaflex® NP 2 suitable for all climates
- UL listed; Passes 2-hour, 4-inch, fire and hose stream test when used with Ultra Block or mineral wool
- Suitable for water immersion with documented performance in wet areas
- Chemical cure allows for faster turnaround time
- Bulk packaging results in less waste
- Long pot life provides extended working time
- Formulated to withstand pedestrian and vehicular traffic
- Can be applied to green concrete 24 hrs after pour
- Can be applied to damp concrete 1 hr after water exposure

APPROVALS / STANDARDS

- ASTM C 920, Type M, Grade NS, Class 50, use NT, T, A, M, O* and I
- Federal Specification TT-S-00227E, Type II, Class A
- Canadian Standards Board CAN/CGSB-19.24-M90, Classification MCG-2-40-A-N, No. 81029
- CFI accepted
- Underwriters Laboratories Inc.® classified (fire resistance only)

*Refer to substrates in Uses.

PRODUCT INFORMATION

Chemical Base	Sikaflex® NP 2 is a multi-component polyurethane product.
Packaging	▪ 1.5 gallon units in 2 gallon (5.67 L) pails
Color	Precast Gray, Limestone, and Tint Base Tint Base: 40 standard, stocked colors are available. Refer to the Popular Palette for Sealants and Waterproofing. Custom matching can be done upon request.
Shelf Life	24 months in original, unopened containers.
Storage Conditions	Store in unopened containers in a cool, clean, dry area. Do not open containers until ready for use.

TECHNICAL INFORMATION

Shore Hardness	25	(after 21 days at 73 °F (23 °C) and 50 % R.H.) (ASTM C-661)
Tensile Strength	118 Psi (1.1 MPa)	(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)
Shrinkage	None	
Tear Strength	> 34 lbf/in	(after 7 days at 73 °F (23 °C) and 50 % R.H.) (ASTM D-624)
Movement Capability	± 50 %	(ASTM C 719)
Thermal Resistance	None	(Cracking and chalking after heat aging) (ASTM C 792)
Service Temperature	-40 to 180°F (-40 to 82°C)	
Color	Passes (no visible stain)	(ASTM C 510)
Extrusion rate	Passes	(ASTM C 603, 3 hrs after mixing)

APPLICATION INFORMATION

Coverage	Linear Feet Per Gallon			
	Width/Depth (Inches)	1/4	3/8	1/2
	1/4	308	-	-
	3/8	205	-	-
	1/2	154	-	-
	5/8	122	82	-
	3/4	-	68	51
	7/8	-	58	44
	1	-	51	38
	1.5	-	-	26
2.0	-	-	19	
Meters Per Liter				

	Width/Depth (mm)	6	10	13
	6	24.8	-	-
	10	16.5	-	-
	13	12.4	-	-
	16	9.8	6.6	-
	19	-	5.5	4.1
	22	-	4.7	3.5
	25	-	4.1	3.0
	38	-	-	2.2
	50	-	-	1.5

Sagging	Nonsag	(ASTM C 639, Rheological (flow), at 120 °F (49 °C))	
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.		
Pot Life	Sikaflex® NP 2 Working Time		
	100 °F	73 °F	40 °F
	1 hours	1 ½ - 2 ½ hours	3 hours
Cure Time	3 days		(73° F and 50% R.H.)

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

- Pursuant to accepted industry standards and practices, using rigid paints and/or coatings over flexible sealants can result in a loss of adhesion of the applied paint and/or coating, due to the potential movement of the sealant. However, should painting and/or coating be desired, it is required that the applicator of the paint and/or coating conduct on-site testing to determine compatibility and adhesion.
- Do not allow uncured Sikaflex® NP 2 to come into contact with alcohol-based materials or solvents.
- Do not use Sikaflex® NP 2 as a cap, heel, or toe bead for exterior glazing.
- Do not apply polyurethane sealants in the vicinity of uncured silicone sealants or uncured Sikaflex® HY 150.
- Sikaflex® NP 2 should not come in contact with oil-based caulking, silicone sealants, polysulfides, or fillers impregnated with oil, asphalt, or tar.
- Do not apply epoxy-based coatings in the vicinity of uncured Sikaflex® NP 2.
- Do not apply to freshly treated wood; treated wood must have been weathered for at least 6 months.
- Do not open containers until ready for use.

- Units are premeasured; do not use partial units, do not batch down.
- Sikaflex® NP 2 may yellow in the presence of unvented artificial heat; this is a surface phenomenon that does not affect sealant performance.
- When Sikaflex® NP 2 is used in areas subject to continuous water immersion, cure for 14 days at 70 °F (23 °C). Allow longer cure times at lower temperatures. Always use Sikaflex® Primer-429.
- Do not use it in swimming pools or in other submerged conditions where the sealant will be exposed to strong oxidizers. Avoid submerged conditions where water temperatures will exceed 120 °F (50 °C).
- Horizontal joints subject to traffic or intermittent ponding of water require the use of a primer. Call Technical Service for details.
- Substrates such as copper, stainless, and galvanized steel typically require the use of a primer; Sikaflex® Primer-260 is acceptable. For Kynar coatings, use Sika® Primer-449 only. An adhesion test is recommended for any other questionable substrate.
- Use only Sikaflex®-900 color packs designed for use with Sikaflex® NP 2.
- Proper application is the responsibility of the user. Field visits by Sika personnel are to make technical recommendations only and not to supervise or provide quality control on the job site.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding

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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

NOTES ON INSTALLATION

Table 1

Joint Width and Sealant Depth

Joint Width	Sealant Depth at Midpoint
1/4–1/2" (6–13 mm)	1/4" (6 mm)
1/2–3/4" (13–19 mm)	1/4–3/8" (6–10 mm)
3/4–1" (19–25 mm)	3/8–1/2" (10–13 mm)
1-1 1/2" (25–75 mm)	1/2" (13 mm)

SUBSTRATE PREPARATION

Substrates must be structurally sound, fully cured, dry, and clean. Substrates should always be free of the following: dirt, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing or curing and parting compounds, membrane materials, and sealant residue.

Concrete, Stone, and other Masonry

Clean by grinding, sandblasting, or wire brushing to expose a sound surface free of contamination and laitance.

Wood

New and weathered wood must be clean, dry, and sound. Scrape away loose paint to bare wood. Any coatings on wood must be tested to verify the adhesion of the sealant or to determine an appropriate primer.

Metal

Remove scale, rust, and loose coatings from metal to expose a bright white surface. Any coatings on metal must be tested to verify the adhesion of the sealant or to determine an appropriate primer.

MIXING

1. Sikaflex® NP 2 is a multi-component system with a configuration of Part A, Part B, and a color pack. Pre-pigmented units do not use a color pack.
2. Transfer the entire contents of Sikaflex®-900 pigment color pack into the Part A. Use a spatula or knife to remove all the pigment from the container. Continue mixing with a slow-speed drill and sealant mixing paddle until the color is uniform. During the process, scrape the sides and bottom of the mixing container several times to obtain a complete mix.
3. Transfer the entire content of Part B to pre-mixed Part A container using a spatula or margin trowel.
4. Part B must be mixed thoroughly with pre-mixed Part

A. Scrape the sides of the container to ensure complete mixing of mixed Parts A and B. With a slow-speed drill and a sealant mixing paddle, mix for 4–6 minutes. Keep the paddle blade below the surface of the sealant to avoid whipping air into the sealant.

NOTE:

- 1.5 gal unit kit use **one** Sikaflex®-900 pigment color pack
- 3.0 gal unit kit use **two** Sikaflex®-900 pigment color packs

APPLICATION

Joint Preparation

1. The product may be used in sealant joints designed in accordance with SWR Institute's Sealants -The Professional's Guide.
2. In optimal conditions, the depth of the sealant should be 1/2 the width of the joint. The sealant joint depth (measured at the center) should always fall between the maximum depth of 1/2" and the minimum depth of 1/4". The maximum recommended joint width is 2". Refer to Table 1.
3. In deep joints, the sealant depth must be controlled by a closed-cell backer rod or soft backer rod. Where the joint depth does not permit the use of a backer rod, a bond breaker (polyethylene strip) must be used to prevent three-point bonding.
4. To maintain the recommended sealant depth, install the backer rod by compressing and rolling it into the joint channel without stretching it lengthwise. Closed cell backer rod should be about 1/8" (3 mm) larger in diameter than the width of the joint to allow for compression. The soft backer rod should be approximately 25% larger in diameter than the joint width. The sealant does not adhere to it, and no separate bond breaker is required. Do not prime or puncture the backer rod.

Priming

1. Sikaflex® NP 2 is considered a non-priming sealant, but special circumstances or substrates may require a primer. It is the user's responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application. Refer to the product data sheet on Sika® Primer-429 and consult Technical Service for additional information.
2. For immersion applications, Sika® Primer-429 must be used.
3. Apply primer full strength with a brush or clean cloth. A light, uniform coating is sufficient for most surfaces. Porous surfaces require more primer; however, do not over-apply.
4. Allow the primer to dry before applying Sikaflex® NP 2. Depending on temperature and humidity, the primer will be tack-free in 15–20 minutes. Priming and sealing must be done on the same day.

Application

1. Except when unusual job conditions dictate the use of

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- a knife or spatula, apply Sikaflex® NP 2 by a professional bulk gun loaded at the job site. Fill joints from the bottom up to the exterior face by holding a properly sized nozzle against the joint bottom.
2. Dry tooling is recommended. Proper tooling results in the correct bead shape, neat joints, and optimal adhesion.
 3. Best practices dictate that all caulking and sealing be done when temperatures are above 40 °F (4 °C) to avoid application to moisture-laden surfaces. Moisture on substrates will adversely affect adhesion.
 4. Application may proceed as low as 40 °F (4 °C) if there is a certainty that substrates are completely dry, free of moisture, and clean as described under Surface Preparation.

Curing

The cure of Sikaflex® NP 2 varies with temperature and humidity. The following times assume 75 °F (24 °C), 50% relative humidity, and a joint 1/2" (13 mm) in width by 1/4" (6 mm) in depth. – Full cure: approximately 3 days.

CLEANING OF TOOLS

Immediately after use and before the sealant has cured, clean equipment with SikaSwell®-990 or xylene. Cured sealant may be removed by cutting with a sharp-edged tool. Remove thin films by abrading.

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of

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