

PRODUCT DATA SHEET

Sikaflex® NP 125

(formerly MSeal NP 125)

ONE-COMPONENT, ELASTOMERIC, THERMOPLASTIC SEALANT AND ADHESIVE

PRODUCT DESCRIPTION

Sikaflex® NP 125 is a one-component, high-performance, non-priming, thermoplastic sealant and adhesive. It requires no mixing and bonds tenaciously to common building materials, including concrete and clay roof tiles, metal flashings, and masonry.

USES

- Residential
- Commercial
- Sheet roofing
- Liquid applied roofs
- Metal roofs
- Shingled and tiled roofs
- Between adjacent layers of roof tile
- Sealing edge and ridge tiles
- Penetration seals
- Flashings
- Skylight frames
- Termination bars and reglets
- Parapet expansion joints
- Lap seals in metal roof assemblies
- Sealing wood forms

Substrates

- Clay Tile
- Concrete
- Masonry
- Aluminum
- Wood
- Vinyl
- Ceramic
- Porcelain
- Painted Metals
- Composite Materials
- Rubber
- Acrylic Glass
- PVDF Coatings
- Asphalt Roof Shingles

CHARACTERISTICS / ADVANTAGES

- One-component formula requires no mixing prior to use
- Fast tack-free time. Reaches ultimate performance properties within 7 days.
- Superior adhesive strength provides long-lasting bonds to a wide variety of substrates. (see the application section for more information)
- A wide temperature range is suitable for exterior use in all climates
- Compatible with most non-rigid paints and can be painted

APPROVALS / STANDARDS

- ASTM C 920, Type S, Grade NS, Class 12.5, Use T, NT, M, A and O
- Federal Specification TT-S-00230C, Type II, Class B

PRODUCT INFORMATION

Chemical Base	Sikaflex® NP 125 is a one-component thermoplastic rubber.
Packaging	Gun Grade: 300ml (10.1 fl. oz.) in either composite or plastic cartridges <ul style="list-style-type: none"> ▪ Composite cartridge: 12 or 24 per carton ▪ Plastic cartridge: 12 per carton (for clear only)
Shelf Life	Plastic Cartridges: 18 months when properly stored Composite Cartridges: 2 years when properly stored
Storage Conditions	Store in original, unopened containers away from heat and direct sunlight. Storing at elevated temperatures will reduce the shelf life.
Color	Clear Black White

TECHNICAL INFORMATION

Shore A Hardness	40–45 at 70F and 50%RH	(ASTM C 661)
Tensile Strength	7 days 14 days	422 psi (2.91 MPa) 679 psi (4.68 MPa) (ASTM D 412)
Tensile stress at specified elongation	Elongation Strength 7 days 14 days	622.2% 679.1% (ASTM D 412)
Elongation at break	560%	(ASTM D 412)
Movement Capability	± 12.5%	(ASTM C 719)
Adhesion in peel	17 pli	(ASTM C 794)
Service Temperature	-40 to 180 ° F (-40 to 82° C)	
Thermal Resistance	Weight loss , after heat aging < 10% Cracking and chalking , after heat aging None	(ASTM C 792) (ASTM C 792)
Resistance to Weathering	No surface cracking, Xenon arc, 500 hours	(ASTM C 793)
Color	No visible stain	(ASTM C 510)
Joint width	Joint Width, in (mm) 1/4–1/2 (6–13) 1/2–3/4 (13–19) 3/4–1 (19–25) 1–1 1/2 (25–38)	Sealant Depth at midpoint, in (mm) 1/4 (6) 1/4–3/8 (6–10) 3/8–1/2 (10–13) 1/2 (13)
Extrusion rate	75g/sec	(ASTM C 603)

APPLICATION INFORMATION

Coverage	A 1/2" round bead will yield approximately 7.7 linear feet (2.35 m) per cartridge
Sagging	Rheological , (Sag in vertical displacement) No sag (ASTM C 639)
Cure Time	The cure of Sikaflex® NP 125 varies with temperature and humidity. The following times assume 75° F (24° C), 50% relative humidity, and a joint 1/2" width by 1/4" depth (13 by 6 mm). <ul style="list-style-type: none">▪ Skins: 10–15 minutes▪ Full cure: approximately 2 weeks
Tack Free Time	15 min (ASTM C 679)

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.

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

NOTES ON INSTALLATION

- Protect unopened containers from heat and direct sunshine.
- In cool or cold weather, store the container at room temperature for at least 24 hours before use.
- Do not apply over freshly treated wood; treated wood must have been weathered for at least 6 months.
- Not for use in glazing applications. Do not apply on glass and plastic glazing panels.
- Sikaflex® NP 125 can be applied below freezing temperatures only if substrates are completely dry, free of moisture, and clean. Contact Technical Service for more information.
- Lower temperatures and humidities will extend curing times.
- 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.

- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

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.

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 optimum 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".
3. When using as a roof tile adhesive, make sure surfaces are clean and dry.

APPLICATION

General Applications

1. Sikaflex® NP 125 comes ready to use. Apply using a professional-grade caulking gun. Do not open cartridges or cans until preparatory work has been completed.
2. Apply a bead of Sikaflex® NP 125 sufficient enough in size to make a bond between the two substrates.

Roofing Applications

1. For roofing applications, ensure a sufficient amount of Sikaflex® NP 125 is applied to make a bond between the two tiles on the upper surface of the downslope tile. Then install the upslope tile and press into the bead of Sikaflex® NP 125 to ensure good contact between the adhesive and both tiles.
2. Install the upslope tile and press into the bead of Sikaflex® NP 125 to ensure good contact between the adhesive and both tiles.

CLEANING OF TOOLS

1. Immediately after use, clean equipment with SikaSwell®-990 or xylene. Use proper precautions when handling solvents.
2. Remove cured sealant by cutting with a sharp-edged tool.
3. 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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Product Data Sheet

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installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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