

PRODUCT DATA SHEET

Sikalastic®-390 NP

Two-component, elastomeric, crack-bridging, primerless, waterproofing base coat

PRODUCT DESCRIPTION

Sikalastic®-390 NP is a two component, primerless, aliphatic, chemically cured, elastomeric polyurethane coating intended for use as the waterproofing base coat under polyurethane or epoxy wearing surfaces for pedestrian and vehicular traffic bearing applications, and as the waterproofing membrane under a separate wearing course such as concrete, and tile in a setting bed. Sikalastic®-390 NP can be a direct replacement for Sikalastic® 390 in all applications over suitable substrate.

USES

Sikalastic®-390 NP may only be used by experienced professionals.

- Multi-story parking garages
- Parking decks and ramps
- Foot bridges and walkways
- Mechanical rooms
- Stadiums and arenas
- Plaza and rooftop decks
- Balconies

CHARACTERISTICS / ADVANTAGES

- Excellent crack-bridging properties and flexibility, even at low temperatures
- Primer not required for typical applications
- Alkaline resistant
- Low odor and fast turnaround
- Impervious to water and deicing salts

PRODUCT INFORMATION

Packaging	10 gal. two component kit, 2x 4.5 gal. comp. A, 2x 0.5 gal. comp. B
Appearance / Color	gray
Shelf Life	12 months in original, unopened containers
Storage Conditions	Store dry at 41–95 °F (5–35 °C). Condition material to 65–85 °F (18–30 °C) before using.
Solid content by volume	92.70 %

TECHNICAL INFORMATION

Shore A Hardness	85 +/- 5	(ASTM D-2240) 75 °F (24 °C) 50 % R.H.
Tensile Strength	1230 psi	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Elongation at Break	300 %	(ASTM D-412) 75 °F (24 °C) 50 % R.H.
Tear Strength	300 pli	(Die C, ASTM D-624) 75 °F (24 °C) 50 % R.H.

APPLICATION INFORMATION

Mixing Ratio	comp. A (9) : comp. B (1) by volume	
Coverage	75 ft ² /gal at 21 wet mils (20 dry mils) 65 ft ² /gal at 24 wet mils (23 dry mils) 60 ft ² /gal at 26 wet mils (25 dry mils) Coverage rates provided are intended to achieve required wet film thickness under optimal conditions. Additional material may be required depending on substrate surface roughness and porosity, material and substrate temperatures, and other site-dependent factors. This will result in a lower coverage rate.	

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Surface must be clean, dry and sound with an open texture. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. All projections, rough spots, etc., should be dressed off to achieve a level surface prior to the application.

Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means. The use of a primerless-type base coat requires that the concrete surface be sufficiently prepared and open pored so that the base coat is able to penetrate the substrate surface and achieve an adequate bond. The desired surface texture (CSP 3 per ICRI Guidelines). In addition, the substrate surface must be thoroughly cleaned by blowing/vacuuming to remove all particulates that may interfere with base coat bonding. The base coat will not mix and consolidate dust and particulates as will some primers, so thorough cleaning is mandatory.

Plywood – Should be clean and smooth, APA and exterior grade, not less than ½” thick, and spaced and supported according to APA guidelines. Joints should be sealed with Sikaflex® 2c or 1a and detailed, and may

need embedded fabric reinforcement.

Metal - Should be thoroughly cleaned by grinding or blast cleaning. Sikalastic EP Primer is recommended to be used as a corrosion protection.

Detailing

Non-structural cracks up to 1/16 inch – Apply a detail coat of Sikalastic®-390 NP at 23 mils wet, 4” wide, centered over the crack. Allow to become tack free before overcoating.

Cracks and joints over 1/16 up to 1 inch – Seal previously routed and primed cracks and joints with Sika Sealant and allow to skin over and cure for 24 hours min. Apply a detail coat of Sikalastic®-390 NP at 23 mils wet, 4” wide, centered over the crack. Allow to become tack free before overcoating.

Joints over 1 inch – Should be treated as expansion joints and brought up through the Sikalastic® Traffic System and sealed with Sika sealant (see Sealant Guide).

MIXING

Premix Part A and Part B components using a low speed (400–600 rpm) mechanical mixer and Jiffy Paddle at slow

speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour part B into Part A slowly and while mixing scrape the side of the container, Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture.

APPLICATION

Apply at the recommended coverage rate using a notched squeegee or trowel, and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and joints. Allow coating to cure a minimum of 6 hours at 70 °F and 50 % RH or until tack free before top coating. Allow coating to cure for a minimum of 36 hours before installing separate concrete pavement or tile wear course.

Removal

Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.

LIMITATIONS

- To avoid dew point conditions during application relative humidity must be no more than 95 % and substrate temperature must be at least 5 °F (3 °C) above measured dew point temperature.
- Maximum moisture content of concrete substrate by weight when measured with a Tramex CME is 4%.
- Minimum ambient and substrate temperature during application and curing of material is 40 °F (4 °C); maximum is 95 °F (35 °C).
- Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
- Do not thin with solvents.
- Minimum age of concrete must be 21–28 days, depending on curing and drying conditions.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is imminent within 8–12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.
- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including

but not limited to turning off and sealing air intake vents or other means of ingress for odors and for vapors into the building/structure during product application and cure.

- On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used should not be coated with Sikalastic Traffic Systems.
- Unvented metal pan decks or decks containing a between-slab membrane require further technical evaluation and priming with a moisture-tolerant primer - contact Sika regarding recommendations.
- Waterproofing applications under overburden, including concrete pavement, and tile in a cementitious setting bed, require further technical evaluation - contact Sika regarding recommendations.
- Do not subject to continuous immersion.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

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 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.

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