

PRODUCT DATA SHEET

Sikafloor®-2540 W NA

WATER BASED EPOXY COATING FOR HIGH PERFORMANCE FLOOR AND WALL FINISHES

PRODUCT DESCRIPTION

Sikafloor®-2540 W NA is a water based, low VOC, two-part epoxy resin coating with a gloss finish.

USES

Sikafloor®-2540 W NA may only be used by experienced professionals.

Sikafloor®-2540 W NA is designed as a low VOC pigmented coating available in a gloss finish. It can also be used as a pigmented primer under Sikafloor coating systems and is suitable for high-moisture concrete when used as a two-coat system (refer to Limitations). In addition, Sikafloor®-2540 W NA can be used as part of an economical, fast setting wall coating system.

CHARACTERISTICS / ADVANTAGES

- Water based, low VOC's
- Breathable
- Excellent penetration and adhesion
- Easy application
- Reduced recoat times

PRODUCT INFORMATION

Packaging	Component A:	2.0 US gal. (7.57 L) fill in a 2 gal. pail
	Component B:	3.0 US gal. (11.36 L) fill in 5 gal. pail
	Component A+B:	5.0 US gal. kit (18.93 L)
Appearance / Color	Color available in nine standard and custom colors.	
Shelf Life	12 months in original unopened container under proper storage conditions.	
Storage Conditions	Store dry between 40°- 90°F (4°- 32°C) DO NOT ALLOW TO FREEZE	
Viscosity	1000 - 3000 cps	ASTM D2196 at 73 °F (23 °C) and 50% R.H
Solid content by volume	~ 61.5% +/- 5% (by volume)	

TECHNICAL INFORMATION

Shore D Hardness	85 - 90	ASTM D2240 at 73 °F (23 °C) and 50% R.H
Abrasion Resistance	0.118g (CS-17) 1000 rotations/1000g	ASTM D4060 at 73 °F (23 °C) and 50% R.H
Impact Strength	0.45 ft-lbs	ASTM D2794 at 73 °F (23 °C) and 50% R.H
Permeability to Water Vapor	3.96 Prem	ASTM E96 at 73 °F (23 °C) and 50% R.H
Coefficient of Friction	0.88 Dry	ANSI 137.1 at 73 °F (23 °C) and 50% R.H
Service Temperature	50 °F (10 °C) min./86 °F (30 °C) max	
Water Absorption	6.85%	ASTM C413 at 73 °F (23 °C) and 50% R.H
Elongation at break	2.8	ASTM D638 at 73 °F (23 °C) and 50% R.H

APPLICATION INFORMATION

Mixing Ratio	1 : 1.5 by volume	
Coverage	160 - 320 ft² / US gal (3.9 – 4.9 m² / L) at 5 - 10 mils (0.13 – 0.25 mm) wet film thickness.	
Substrate Temperature	50 °F (10 °C) min./86 °F (30 °C) max.	
Pot Life	Material Temperature	Time
	50 °F (10 °C)	~ 1 hour
	68 °F (20 °C)	~ 40 minutes
	86 °F (30 °C)	~ 25 minutes
	Pot life is not visible, product remains liquid after exceeding pot life. Application after pot life limit may result in adhesion failure. Do not apply after pot life limit.	

Cure Time	Substrate Temperature	Foot Traffic	Light Traffic	Full Cure
	50 °F (10 °C)	~ 36 hours	~ 3 days	~ 5 days
	73 °F (23 °C)	~ 18 hours	~ 36 hours	~ 3 days
	86 °F (30 °C)	~ 14 hours	~ 30 hours	~ 2 days

Waiting / Recoat Times

Before applying a second coat of Sikafloor®-2540 W NA on Sikafloor®-2540 W NA allow:

Substrate Temperature	Time Minimum	Time Maximum
50 °F (10 °C)	4 hours	72 hours
68 °F (20 °C)	2 hours	48 hours
86 °F (30 °C)	1 hour	24 hours

Before applying Sikafloor Epoxy or Polyurethane on Sikafloor®-2540 W NA allow:

Substrate Temperature	Time Minimum	Time Maximum
50 °F (10 °C)	24 hours	72 hours
68 °F (20 °C)	8 hours	48 hours
86 °F (30 °C)	6 hours	24 hours

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

Notes on Limitations:

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

Substrate Moisture Content: Moisture content of concrete substrate must be <6% when used with a breathable system. Moisture content of concrete substrate must be ≤ 4 % by mass (pbw – part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4 % mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4 % by mass (pbw – part by weight) but < 6% as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor®-1620. If moisture content is ≥ 6%, use Sikafloor® 22 NA or 24 NA PurCem®.

When relative humidity tests for concrete substrate

are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85 %. If values are > 85% but < 96% according to ASTM F2170, use Sikafloor®-1620. If values are ≥ 96%, use Sikafloor® 22 NA or 24 NA PurCem®.

Material Temperature: Precondition material for at least 24 hours between 65 °F and 75 °F (18° - 24°C)

Ambient Temperature: Minimum/Maximum 50/85 °F (10/30 °C)

Substrate Temperature: Minimum/Maximum 50/85 °F (10/30 °C). Substrate temperature must be at least 5 °F (3 °C) above measured Dew Point. Mixing and Application must adhere to Material, Ambient and Substrate temperatures listed above or a decrease in product workability and slower cure rates will occur.

Ambient Relative Humidity: Maximum ambient humidity 85% (during application and curing)

Dew Point: Beware of condensation!

The substrate must be at least 5 °F (3 °C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or “blushing” on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

Mixing: Do not hand mix Sikafloor® materials. Mechanically mix only. Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty. Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, slow cure, soft spots, and other defects.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur.
- Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikafloor® to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor® product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikafloor® systems must be non-reactive and oven dried.
- This product is not designed for negative side waterproofing.
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- For professional use only by experienced applicators.

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

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, preparation bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be removed to achieve a level surface prior to the application. Concrete should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-2 to CSP-3 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shot-blast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete

substrate should be at least 3,625 psi (25 MPa) at 28 days and at least 218 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sikafloor Technical Services.

MIXING

Mixing Ratio - 1 : 1.5 by volume.

Premix each component separately. Empty component A (Resin) in the correct mix ratio into component B (Hardener). Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

APPLICATION

Pigmented Primer/Sealer/Finish Coat:

Apply coating by squeegee/backroll on horizontal surfaces at the rate of 160 - 320 ft² / US gal (3.9 – 7.8 m² / L) at 5 – 10 mils (0.13 – 0.25 mm) wet film thickness (w.f.t.) and back-roll with pressure. Apply coating by dip/roll for vertical surfaces at 4-8 wet mils per coat. Coverage will vary depending on the porosity of the prepared floor. Product has a limited pot life. Ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. If necessary, apply an additional coat to ensure the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate.

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

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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Product Data Sheet

Sikafloor®-2540 W NA
February 2025, Version 02.01
020811010020000021

Sikafloor-2540WNA-en-US-(02-2025)-2-1.pdf

