

PRODUCT DATA SHEET

Sikafloor®-700

Epoxy Novolac Chemical Resistant Coating

PRODUCT DESCRIPTION

A two component, high solids, novolac epoxy with exceptional chemical resistance. Sikafloor®-700 can be installed as a stand-alone coating. Its versatility allows Sikafloor®-700 to be applied as a topcoat for many of the Sika flooring systems or used as a binder in a slurry/broadcast system. Sikafloor®-700 can be field pigmented using Sikafloor® - Epoxy Color Additive-N to create a variety of colors. May be used in conjunction with fiberglass reinforcement and glass flake additive for additional strength and chemical resistance.

USES

Sikafloor®-700 may only be used by experienced professionals.

Designed for use as a medium to heavy coat epoxy resurfacer in areas subjected to chemical spillages. Ideal for use in chemical processing, chemical storage areas, and battery charge stations.

CHARACTERISTICS / ADVANTAGES

- Low Odor
- Very good chemical resistance
- Wide range of colors with Epoxy Color Additive-N

PRODUCT INFORMATION

Packaging	<u>Component A:</u> <u>Component B:</u> <u>Component kit:</u> (Ready to mix unit)	<u>(2) 2.0 US gal fill in 5 gal pail</u> <u>(2) 1.0 US gal fill in 1 gal pail</u> <u>6 US gal kit (2A+B)</u>
Shelf Life	2 years in original unopened container under proper storage conditions.	
Storage Conditions	Store dry between 40° - 90°F (4°- 32°C).	
Volatile organic compound (VOC) content	62 g/l (A+B Combined).	
Shore D Hardness	ASTM D-2240	79 - 83 at 73°F (23°C) and 50 % R.H
Abrasion Resistance	ASTM D-4060	107 mg loss at 73°F (23°C) and 50 % R.H
Compressive Strength	ASTM D-695	9, 400 psi (28 days) at 73°F (23°C) and 50 % R.H

Flexural Strength	ASTM D-790	9,862.5 psi (68 MPa) at 73°F (23°C) and 50 % R.H		
Tensile Strength	ASTM D-638	6,164 psi (7 Days) at 73°F (23°C) and 50 % R.H		
Elongation at Break	ASTM D-638	12% at 73°F (23°C) and 50 % R.H		
Impact Strength	ASTM D-2794	160 in-lbs at 73°F (23°C) and 50 % R.H		
Chemical Resistance	Please consult Sikafloor Technical Services.			
Water Absorption	ASTM C-413	0.16 % (2 hours boiling) at 73°F (23°C) and 50 % R.H		
Gloss Level	100 g/l (A+ B combined value)			
Coverage	Approximately 80 - 130 ft ² / US gal (1.9 - 3.2 m ² / L) at 12 to 20 mils (0.3 – 0.5 mm) wet film thickness (w.f.t) or 240 - 390 ft ² /US gal (5.9 - 9.6 m ² / L) per 3 gallon unit over primed, relatively smooth, dense concrete surfaces. (The above figures do not allow for surface profile or waste)			
Product Temperature	Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C)			
Ambient Air Temperature	Minimum/Maximum 50°/85°F (10°/30°C)			
Relative Air 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.			
Substrate Moisture Content	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 his 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) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor 1610 or Sikafloor PurCem® 22NA or 24NA.			
Cure Time	Ambient & Substrate Temperature	Foot traffic	Light traffic	Full cure
	+50°F (10°C)	~ 30 hours	~ 3 days	~ 10 days
	+68°F (20°C)	~ 16 hours	~ 2 days	~ 7 days
	+86°F (30°C)	~ 10 hours	~ 36 hours	~ 4 days
Waiting / Recoat Times	Before applying second coat of Sikafloor®-700 allow:			
	Ambient & Substrate Temperature	Minimum	Maximum	
	+50°F (10°C)	24 hours	36 hours	
	+68°F (20°C)	8 hours	24 hours	
	+86°F (30°C)	6 hours	24 hours	

SURFACE PREPARATION

Substrate Temperature: Minimum/Maximum 50°/85°F (10°/30°C). Substrate temperature must be at least 5°F (3°C) above measured Dew Point.

- Surface must be clean, sound and dry.
- Remove dust, laitance, grease, curing compounds, 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-3 to CSP-4 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 “shotblast” pattern may show through the last coat, known as “tracking”.

The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application.

Priming for concrete substrate is required. Prime with either Sikafloor 160, Sikafloor 161 or Sikafloor 1610. Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent coats. Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate.

NOTE: For other substrates, please contact Sikafloor Technical Service.

MIXING

Mix Ratio - 2 : 1 by volume.

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

Field Pigmented:

1. Make sure all surface preparation is complete and installation equipment is ready before starting the mixing sequence.
2. Premix each Component separately, the appropriate Sikafloor Epoxy Color Additive-N is added to Component A at a rate of 1 quart per 3.0 mixed gallons (i.e. Components A+B).
3. Mix Component A and Sikafloor Epoxy Color Additive-N for 2 minutes or until a uniform color is achieved with a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume. Empty Component B (Hardener) in the correct mix ratio to Component A (Resin) and mix for additional 2 minutes. Be careful not to introduce any air bubbles while mixing.
4. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating.
5. 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.

Note:

- For added film strength and chemical resistance, C type glass flake with epoxy silane treatment, 5 micron (μm) nominal size may be added at the rate of 15% by weight. 3 gallon mixed unit + 4.4 lbs (2.0 kg) of glass flake.
- Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.
- Mixing must adhere to Material, Ambient and Substrate temperatures listed above or a decrease in product workability and slower cure rates will occur.

APPLICATION

1. Pour a thin approximately 6 – 12 in. wide bead of Sikafloor 700 in the form of a ribbon on the surface and spread the material at a rate of approximately 130 ft²/ US gal (3.2 m² / L) with a notched squeegee, flat squeegee, or trowel.
2. Apply as evenly as possible, working from left to right, and then back.
3. Back rolling is typically done with an 18 inch (454 mm) wide short nap, 3/8-inch (10 mm), solvent-resistant roller cover.
4. Back roll the Sikafloor 700 only to level the squeegee applied material.

Note:

- Over-rolling and late back rolling may cause bubbling and leave roller marks.
- Application must adhere to Material, Ambient and Substrate temperatures listed above or a decrease in product workability and slower cure rates will 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 propane or natural gas 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.

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.).

Product Data Sheet

Sikafloor®-700

October 2019, Version 01.01

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BUILDING TRUST



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 any information regarding safety issues in the use, handling, storage of this product and disposal of waste, users should consult the most current version of the product Safety Data Sheet, which contains physical, ecological, toxicological and other safety-related data, copies of which will be sent to anyone who requests them, or through the page "www. sika. com. mx".

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. **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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October 2019, Version 01.01
020812040030000020

Sikafloor-700-en-US-(10-2019)-1-1.pdf

