BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® UEF Base System

SELF-LEVELING CEMENTITIOUS POLYURETHANE MOISTURE CONTROL BASE SYSTEM
APPLIED AT 1/8" - 3/16" (3.1 - 4.7 mm)

PRODUCT DESCRIPTION

Sikafloor® UEF Base System creates a moisture vapor tolerant barrier between the concrete substrate and finished Sikafloor System that consists of a selfleveling, three component, cementitious polyurethane either finished smooth or broadcast to rejection with Sikadur aggregate.

Sikafloor® UEF Base System can also be used to accelerate the installation schedule on projects. The self- leveling polyurethane is installed smooth or with a broadcast and seal coat. The system then serves as a work surface during the build out phase of the project. Once the preceding trades are complete, the floor is cleaned, prepared and the finished Sikafloor System installed.

USES

Sikafloor® UEF Base System may only be used by experienced professionals.

The Sikafloor Systems listed below may be installed over Sikafloor® UEF Base System. Contact Sikafloor Technical Services for any system not listed.

- Sikafloor MultiDur Systems
- Sikafloor DecoDur Systems
- Sikafloor ESD Systems
- Sika ComfortFloor Systems

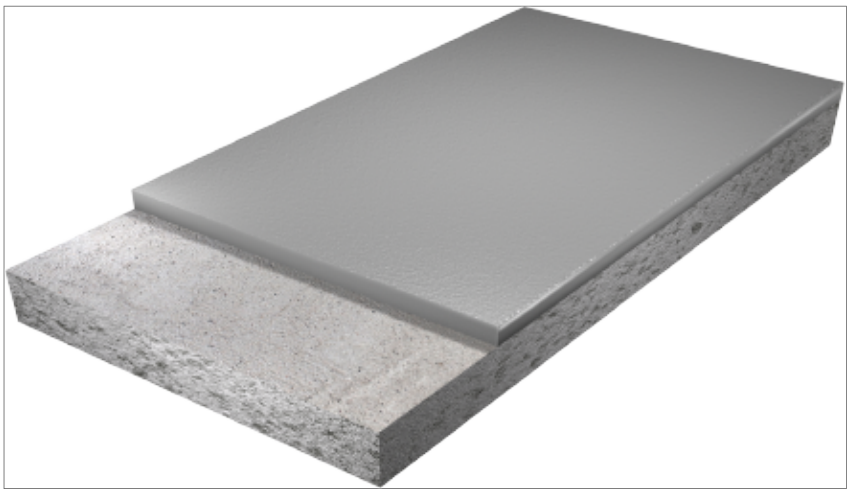
CHARACTERISTICS / ADVANTAGES

- Can be applied on green concrete (typically 7 -10 days) after preparation (see surface prep section) and where substrate has tensile bond strength in 3626 psi (25 MPa) with a minimum pull off strength of 218 psi (1.5 MPa).
- Can be applied to concrete when moisture content of concrete substrate must be > 4% by mass (pbwpart by weight) as measured with Tramex CMC/CMEpert type concrete moisture meter.
- Can be applied to concrete substrates where <100% relative humidity is measured as per ASTM F2170.
- Similar coefficients of thermal expansion to concrete allowing movement with the substrate through normal thermal cycling. It will perform and retain its physical characteristics through a wide temperature range from -40°F (-40°C) up to 248°F (120°C).
- It may be applied as soon as the concrete can be prepared. Extra expansion joints are not necessary; maintain and extend existing expansion joints through the Sikafloor® UEF Base System.
- Behaves plastically under impact / deforms but will not crack or debond achieves highest performance ratings according to ASTM G21 resistance to fungi and ASTM D3273 resistance to mold growth.
- Meets the requirements of USDA for use in food plants.
- Non-tainting, odorless.

SYSTEM INFORMATION

System Structure

Sikafloor® UEF Base System ~ 1/8" - 3/16" (3.1 - 4.7 mm)



Description	Products	Thickness mils
Body Coat	Sikafloor®-22 NA PurCem + Sikadur®- 508 Aggregate	1/8"- 3/16"
Options		
Primers	Sikafloor®-31 NA PurCem	15 - 20
	Sikafloor®-2570	3 - 5
Scratch Coat	Sikafloor®-24 NA PurCem	40 - 60
Body Coat	Sikafloor®-24 NA PurCem + Sikadur®- 508 Aggregate	120 - 160
Top Coat	Sikafloor®-31 NA PurCem	15 - 20

* Primer/Scratch coat required If applied with a smooth finish, and optional for broadcast system.

Color	Available in standard PurCem colors
Nominal thickness	1/8" - 3/16" (3.1 - 4.7 mm)
Minimum thickness	1/8" (3.1 mm)
Volatile organic compound (VOC) content	Please refer to the individual Product Data Sheets.

TECHNICAL INFORMATION

Water Absorption	0.10%	ASTM C413 at 73°F (23°C) and 50% R.H
Shore D Hardness	83	ASTM D2240 at 73°F (23°C) and 50% R.H

Abrasion Resistance	CS-17/1000 cycles/1000 g -0.07 g loss H-22/1000 cycles/1000 g -0.24 g loss	ASTM D4060 73°F (23°C) and 50% R.H
Indentation	~ 0%	MIL -PRF -24613 at 73°F (23°C) and 50% R.H
Compressive Strength	6,961psi (48 MPa) 28 days	ASTM 579 73°F (23°C) and 50% R.H
Tensile Strength	1,290 psi (8.9 MPa)	ASTM C307 at 73°F (23°C) and 50% R.H
Flexural Strength	2,726 psi (18.8 MPa)	ASTM C580 at 73°F (23°C) and 50% R.H
Chemical Resistance	Please consult Sikafloor Technical Services.	
Microbiological Resistance	Resistance to Fungi Growth Rated 0 (no growth)	ASTM G21 at 73°F (23°C) and 50% R.H
	Resistance to Mold Growth Rated 10 (highest resistance)	ASTM D3273 at 73°F (23°C) and 50% R.H
Thermal Conductivity	Pass	ASTM C884 at 73°F (23°C) and 50% R.H
Coefficient of Friction	3.02 x 10^5 in/in/°F (5.43 x 10^5 mm/mm/°C)	ASTM D696 at 73°F (23°C) and 50% R.H

APPLICATION INFORMATION

Coverage

Description	**Products**	**Approximate Sq.Ft./kit**
Body Coat	Sikafloor®-22 NA PurCem Sikadur®- 508 Aggregate	31@3/16" 100 sq.ft. per bag
Options		
Primers	Sikafloor®-31 NA PurCem	224@15mils
	Sikafloor®-2570	2,667@3mils
Scratch Coat	Sikafloor®-24 NA PurCem	215@40mils
Body Coat	Sikafloor®-24 NA PurCem Sikadur®- 508 Aggregate	107@80mils 100 sq.ft. per bag
Top Coat	Sikafloor®-31 NA PurCem*	224@15mils

Ambient Air Temperature	Minimum/Maximum 40˚/85˚F (4˚/30˚C)
Substrate Temperature	Minimum/Maximum 40˚/85˚F (4˚/30˚C)

PRODUCT INFORMATION

Packaging	Please refer to the individual Product Data Sheet
Shelf Life	Please refer to the individual Product Data Sheet
Storage Conditions	Please refer to the individual Product Data Sheet

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

Please refer to the individual Product Data Sheet for Limitations

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

Concrete surfaces must be clean and sound. Remove all dust, dirt, existing paint films, efflorescence, exudates, laitance, form oils, hydraulic or fuel oils, brake fluid, grease, fungus, mildew, biological residues or any other contaminants which may prohibit a good bond.

Prepare the surface by any appropriate mechanical means, in order to achieve a profile equivalent to ICRI - CSP 3-6. The compressive strength of the concrete substrate should be at least 3,625 psi (25 MPa) at 28 days and a minimum of 218 psi (1.5 MPa) in tension at the time of application.

Repairs to cementitious substrates, filling of blowholes, leveling of irregularities, etc. should be carried out using an appropriate Sika profiling mortar. Contact Sika Technical Service for a recommendation.

Edge Terminations
All free edges of a Sikafloor PurCem floor, whether at the perimeter, along gutters or at drains, require extra anchorage to distribute mechanical and thermal stresses. This is best achieved by forming or cutting grooves in the concrete. Grooves should have a depth and width of 2 times thickness of the Sikafloor PurCem floor. Refer to the edge details provided at http://usa.sika.com.

If necessary, protect all free edges with mechanically attached metal strips. Do not featheredge, always turn into an anchoring groove.

Expansion Joints
Expansion joints should be provided in the substrates at the intersection of dissimilar materials. Isolate areas subject to thermal stresses, vibration movements, or around load-bearing columns and at vessel sealing rings. Refer to details provided at http://usa.sika.com.

Priming
Please refer to the individual Product Data Sheet for each component.

MIXING

Please refer to the individual Product Data Sheet

APPLICATION

Please refer to the individual Product Data Sheet

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. **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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