BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® PurCem® SL

SELF-LEVELING POLYURETHANE CEMENTITIOUS SLURRY ENGINEERED WITH SIKAFLOOR-24 NA PURCEM AT 80 - 160 MILS (2 - 4 MM)

PRODUCT DESCRIPTION

Sikafloor® PurCem® SL is a state of the art, phthalate-free, water dispersed polyurethane based/cement and aggregate screed. It is designed to be installed as a self leveling floor topping that provides an easy-to-clean, smooth surface with slip resistance and is typically used for general, industrial applications. Sikafloor® PurCem® SL represents superior polyurethane cement technology, combining easier application, resistance to blistering and improved performance. Sikafloor® PurCem® SL typically installed at 80 - 160 mils (2 - 4 mm) thickness.

USES

Sikafloor® PurCem® SL may only be used by experienced professionals.

- Typically used in areas of medium to heavy loading and abrasion, to provide a smooth, flat and thin self-leveling layer in general industrial areas, including warehouses, production facilities, laboratories and workshops, either with or without a Sikafloor® sealer top coat.
- As thin layer, flat but slip-resistant screed in commercial environments, with a suitable UV-stable Sikafloor sealer for retention of aesthetics.
- As broadcast receiving coat, slip-resistant screed in commercial environments,with a suitable UV-stable Sikafloor sealer for retention of aesthetics.
- When used as a base for MVT system, total thickness must be 1/8-inch (3.2mm).

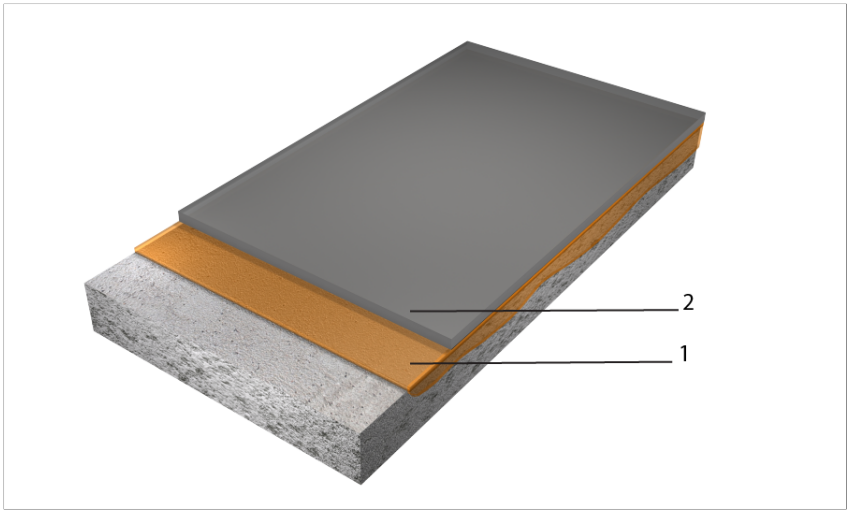
CHARACTERISTICS / ADVANTAGES

- Can be applied on green concrete, typically 7-10 days. Full 28 days cure time is not necessary.
- Can be applied over partially cured concrete substrates (> 4% mass (pbw –part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter surface moisture).
- Can be applied to concrete substrates where <100 % relative humidity is measured as per ASTM F2170.
- Substrate has tensile bond strength in excess of 218 psi (1.5 MPa). Substrate has tensile bond strength in excess of 218 psi (1.5 MPa).
- Resists a very wide range of organic and inorganic acids, alkalis, amines, salts and solvents. Consult Sika Technical Service for full details. Refer to the Sikafloor - 24 NA Purcem FS Chemical Resistance Chart.
- Similar coefficient 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).
- Steam cleanable at 80 to 160 mils (2 to 4 mm) thickness.
- Non-tainting, odorless.
- Behaves plastically under impact / deforms but will not crack or debond.
- High abrasion qualities result from its aggregate structure.
- Extra Expansion joints are not necessary; maintain and extend existing expansion joints up through the Sikafloor PurCem Flooring System.
- Minimal maintenance costs, superior life cycle cost advantage versus tile.
- Meets the requirements of USDA for use in food plants.

SYSTEM INFORMATION

System Structure

Sikafloor® PurCem® SL System 80 -160 mils (2 - 4 mm)



Description	Products	Thickness mils
1. Primer	Sikafloor®-31 NA PurCem*	15 -20
2. Slurry	Sikafloor®-24 NA PurCem*	80 -160
Options		
Primers	Sikafloor®-2570	3 -5
Top coat	Sikafloor®-31 NA PurCem*	15 -20

* To reduce cure time use Sikafloor®- PurCem® Fast Set

Color	Available in standard PurCem colors.	
Nominal thickness	80 to 160 mils (2 -4 mm)	
Minimum thickness	80 mils (2 mm)	
Volatile organic compound (VOC) content	Please refer to the individual Product Data Sheets.	
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	Approximates Sq.Ft./kit
1. Primer	Sikafloor®-31 NA PurCem*	224@15 mils
2. Slurry	Sikafloor®-24 NA PurCem*	107@80 mils
Options		
Primers	Sikafloor®-2570	2,667@3 mils
Top Coat	Sikafloor®-31 NA PurCem*	224@15 mils

*Sikafloor®- PurCem Fast Set Sq.Ft coverage per kit is equivalent to standard Sikafloor®- PurCem.

Ambient Air Temperature	Minimum/Maximum 40˚/85˚F (4˚/30˚C)
Substrate Temperature	Minimum/Maximum 40˚/85˚F (4˚/30˚C).
Pot Life	Please refer to the individual Product Data Sheet
Waiting / Recoat Times	Please refer to the individual Product Data Sheet

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

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

LIMITATIONS

Please refer to the individual Product Data Sheet for Limitations

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

Please refer to the individual Product Data Sheets.

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.

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