BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® PurCem® SL+

SELF-LEVELING POLYURETHANE CEMENTITIOUS SLURRY ENGINEERED WITH SIKAFLOOR-22 NA PURCEM @ 160 - 250 MILS (4 - 6.3 MM)

PRODUCT DESCRIPTION

Sikafloor® PurCem® SL+ is a solid color, self-leveling, urethane slurry designed to provide excellent resistance to abrasion, impact, chemical attack and thermal shock. The system is typically installed @160 - 250 mils (4 - 6.3 mm).

USES

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

- Sikafloor® PurCem® SL+ is primarily used to protect concrete substrates in aggressive environments.
- Typically used in food processing plants, wet & dry process areas, freezers & coolers, dairies, breweries, wineries, distilleries, laboratories, chemical process plants, pulp and paper plants, warehouses and storage areas and pharmaceutical facilities.

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.
- 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 -22 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 3/16 to 1/4 inch (188 to 250 mils) 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+ ~ 160 - 250 mils (4 - 6.3 mm)

Description	Products	Thickness mils
Slurry	Sikafloor®-22 NA PurCem*	160 -250
Options		
Primers	Sikafloor®-2570	3 -5
	Sikafloor®-31 NA PurCem*	15 -20

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

Color	Available in standard PurCem colors
Nominal thickness	160 to 250 mils (4 to 6.3 mm)
Minimum thickness	160 mils (4 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	80-85	ASTM D2240 at 73°F (23°C) and 50% R.H
Abrasion Resistance	CS-17/1,000 cycles/1,000 g -0.110g loss H-22/1,000 cycles/1,000 g -2.26g loss	ASTM D4060 at 73°F (23°C) and 50% R.H
Impact Strength	5.02 ft - lb (6.81 joules) at 1/8'' (3 mm) of thickness	ASTM D2794 at 73°F (23°C) and 50% R.H
Indentation	~ 0%	MIL -PRF -24613 at 73°F (23°C) and 50% R.H
Compressive Strength	5,657 Psi (39 MPa) 28 days	ASTM C579 at 73°F (23°C) and 50% R.H

Tensile Strength	944 psi (6.51 MPa) 28 days	ASTM C307 at 73°F (23°C) and 50% R.H
	254 psi (> 1.75 MPa) (substrate failure) Pull -off Strength	ASTM D4541 at 73°F (23°C) and 50% R.H
Flexural Strength	2,790 psi (8.9 MPa)	ASTM C580 at 73° F (23° C) and 50% RH
	2.71 x 10^5 psi (1.87 x 10^3 MPa) Flexural Modulus	
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% RH
Coefficient of Friction	≥ 0.42	ANSI 326.3

APPLICATION INFORMATION

Coverage

Description	Products	Approximates Sq.Ft./kit
Slurry	Sikafloor®-22 NA PurCem*	31@3/16''
Options		
Primers	Sikafloor®-2570	2,667@3 mils
	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 Sheets.
Waiting / Recoat Times	Please refer to the individual Product Data Sheets.

PRODUCT INFORMATION

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

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

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

Prepare the surface by any appropriate mechanical means, 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 tensile at the time of application.

Repairs to cementitious substrates, filling of blowholes, levelling 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 anchor 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 for each component.

APPLICATION

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

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.

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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Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com

Sika Mexicana S.A. de C.V.
Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537