

Sikafloor® 22 NA PurCem Self-Leveling Broadcast System

Self-Leveling Polyurethane Screed, Quartz Broadcast and Sealed finish, 3/16 to 1/4 inch (4.5 - 6.3 mm)

Description	Sikafloor®-22 NA PurCem® is a self-leveling, solid color, three component, cementitious urethane slurry designed to provide excellent resistance to abrasion, impact, and chemical attack. Sikafloor®-22 NA PurCem® is broadcast with dried quartz sand and sealed with Sikafloor 31NA PurCem to produce a solid color finish, If its decorative, colored quartz then it would need a double broadcast which we have a separate system sheet. The system is typically installed at 3/16 to 1/4 inch (4.5 to 6 mm) thickness.
Where to Use	<ul style="list-style-type: none"> ■ Sikafloor®-22 NA PurCem® is primarily used to protect concrete substrates and provide an attractive, slip resistant and easily cleaned floor surface. ■ 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.
Advantages	<ul style="list-style-type: none"> ■ Can be applied onto 7 to 10 day old concrete after adequate preparation and where substrate has tensile bond strength in excess of 3626 psi (25 MPa) with a minimum pull off strength of 218 psi (1.5 MPa). ■ Can be applied over partially cured concrete substrates (>4 % surface moisture), full 28 days cure time is not necessary. ■ 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 PurCem 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). ■ Non-tainting, very low odor. ■ Bond strength in excess of the tensile strength of concrete, concrete will fail first. ■ The broadcast finish provides a slip resistant surface. High abrasion qualities result from its aggregate structure. ■ Minimal maintenance costs, superior life cycle cost advantage versus tile. ■ Extra expansion joints are not necessary; maintain and extend existing expansion joints through the Sikafloor PurCem Flooring 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.

TYPICAL 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. REFER TO INDIVIDUAL MATERIAL DATA SHEET FOR APPROPRIATE OPTIONAL FINISH COAT.

Properties, Sikafloor 22 NA Base Coat.
Tested at 73°F (23°C) and 50% R.H:

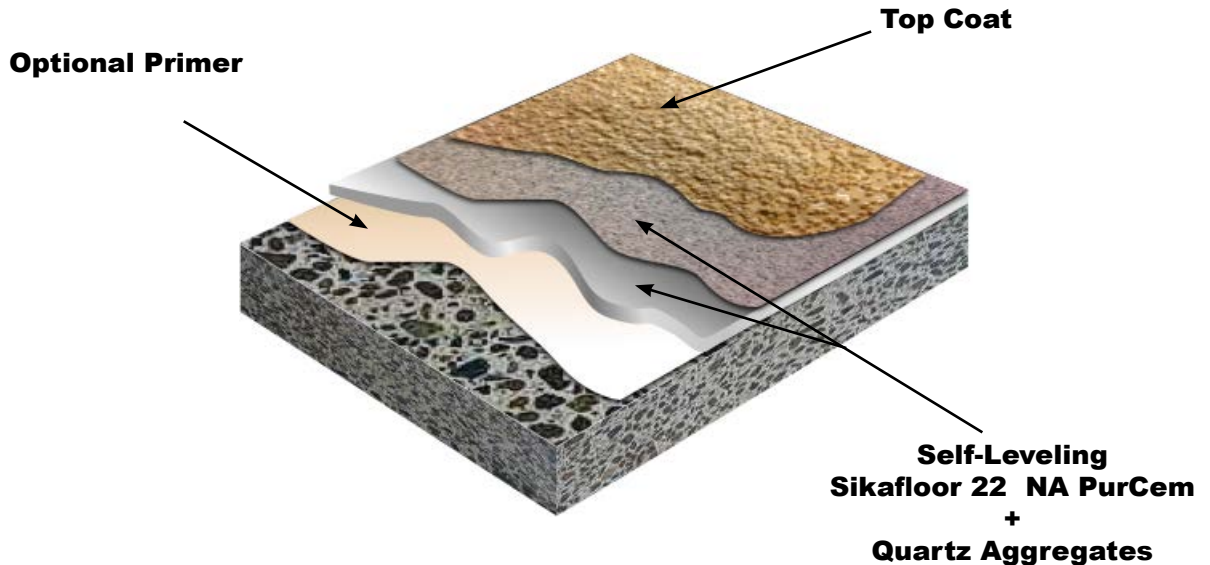
Compressive Strength:	ASTM 579	5,802 psi (40 MPa) 28 days
Tensile Strength:	ASTM C307	1,045 psi (6.5 MPa)
Flexural Strength:	ASTM C580	2,790 psi (8.9 MPa)
Pull-off Strength:	ASTM D4541	>254 psi (> 1.75 MPa)(substrate failure)
Thermal Compatibility With Concrete:	ASTM C884	Pass
Shore D Hardness	ASTM D2240	80- 85
Indentation		~ 0% MIL -PRF -24613
Coefficient of Thermal Expansion:	ASTM D696	0.89 x 105 in/in/°F (1.6 x105 mm/mm/°C)
Impact Strength:	ASTM D2794	5.02 ft - lb (6.81 joules)at 1/8" (3 mm) of thickness)
Abrasion Resistance	ASTM D4060	
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Sikafloor 31 NA Purecem	S-17/1,000	cycles/1,000 mg
	H-22/1,000	cycles/1,000 mg
Sikafloor 511		37 mg



System Build Up

Coating	Product Name	Typical Thickness (mils)
Optional Primer	Substrate priming is normally not required under typical circumstances. Substrate porosity/condition determines if primer/scratch coat is required	As Required
Self-Leveling Mortar	Sikafloor - 22 NA PurCem + Sikafloor Quartz Agreegates	3/16 - 1/4-inch (4.5 - 6.3 mm)
Top Coat	Sikafloor - 31 NA PurCem	12 -16 mils
Optional Top Coat	Sikafloor - 511 + Sikafloor Sco Color Add	12 - 16 mils

Sikafloor-511 for superior UV resistance and short turn around times.



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