

Sikafloor® NA 24 PurCem Self-Leveling Broadcast System

Self-Leveling Polyurethane Screed, Quartz Broadcast and Sealed finish,
1/8 - 3/16 inch (3 - 4.5 mm)

Description Sikafloor®-24 NA PurCem® is a state of the art, phthalate-free, water dispersed polyurethane based/cement and aggregate screed, applicable at thicknesses ranging from 80 to 160 mils (2 to 4 mm). 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®-24 NA PurCem® represents superior polyurethane/cement technology, combining easier application, resistance to blistering and improved performance. The system is typically installed at 2/8 - 3/16 inch (3-4.5 mm) nominal thickness. and is typically sealed with Sikafloor 31 NA PurCem

- Where to Use**
- Sikafloor 24 NA PurCem 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). vapor resistant topping where high MVT rates may preclude the application of other products.

- Advantages**
- 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.
 - Easy installation requiring less labor to install than traditional Sikafloor® PurCem® trowel and heavy duty slurry grade materials
 - Can be applied to concrete substrates where <100% relative humidity is measured as per ASTM F2170.
 - Wide range of application temperatures from 45°F (7°C) minimum to 100°F(38°C) maximum.
 - 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.
 - Performs and retains its physical characteristics through a wide, wet or dry temperature range from 23°F (-5°C) at 2.0 mm and 14°F (-10°C) at 4.0 mm up to 248°F (120°C).
 - Superior formulation eliminates formation of blisters, such as those arising out of application during elevated temperatures or early and multiple layer applications.
 - Non-tainting, odorless and phthalate-free, avoiding associated toxicity to health and environmental hazards.

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 24 NA PurCem Base Coat.
Tested at 73°F (23°C) and 50% R.H:

Compressive Strength:	ASTM C579	6,961 psi (48.0 MPa)
Tensile Strength	ASTM C307	1,390 Psi (8.9 MPa)
Flexural Strength:	ASTM C580	2,726 psi (18.8 MPa)
Flexural Modulus:	ASTM C580	2.71x10 ⁵ Psi (1.87 x10 ³ MPa) 14 days
Pull-off Strength:	ASTM D4541	597 psi (4.12 MPa) (substrate failure)
Thermal Compatibility With Concrete:	ASTM C884	Pass
Shore D Hardness	ASTM D2240	83
Coefficient of Thermal Expansion:	ASTM D696	0.89 x 10 ⁻⁵ in/in/°F (5.42 x 10 ⁻⁵ mm/mm/°C)

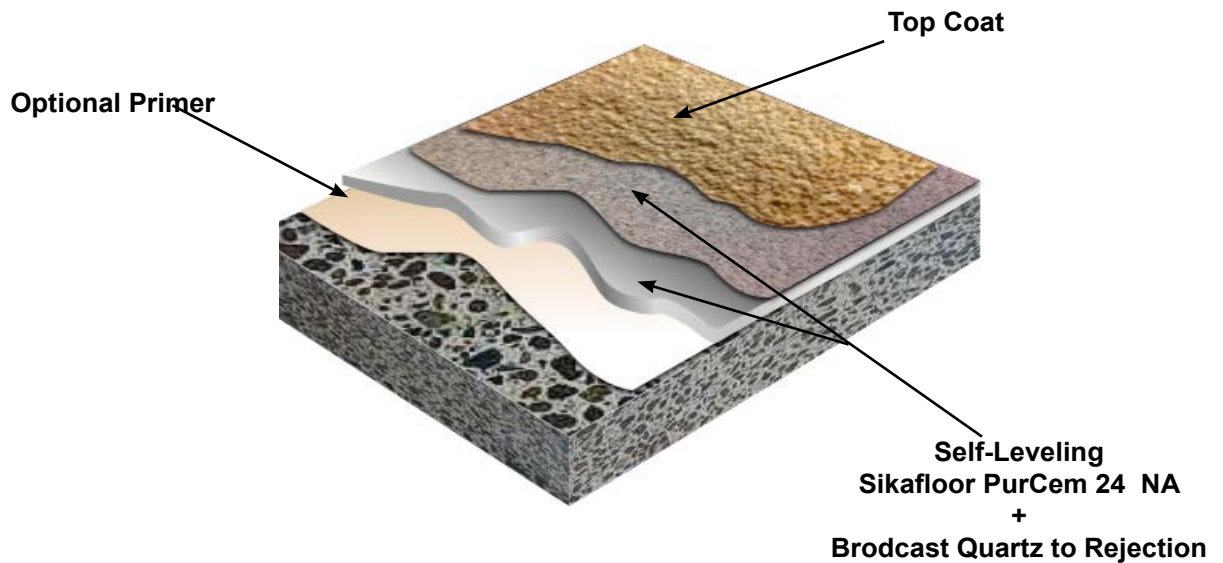
Abrasion Resistance	ASTM D4060
Sikafloor 31 NA Purecm	S-17/1,000 cycles/1,000 mg H-22/1,000 cycles/1,000 mg
Sikafloor 511	37 mg
Sikafloor 510 LPL	83 mg



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 -24 NA PurCem + Broadcast quartz Agreegates	1/8 - 3/16 inch (3- 4.5 mm)
Top Coat	Sikafloor- 31 NA PurCem	15 - 20
Optional Top Coat	Sikafloor- 511 + Sikafloor SCO color Add	12 -16
Optional Top Coat	Sikafloor- 510 LPL	12 -16

System Build Up Step Diagram



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