

**Product Data Sheet**

Edition 2.20.2007

Identification no.

Sikafloor Level 25

## Sikafloor® Level 25 Cementitious Self-Leveling Floor Screed

<b>Description</b>	Sikafloor Level 25 is a one component, polymer modified, versatile and durable floor pumpable cementitious screed for interior concrete floors which can be applied manually or by pump to achieve rapid, flat, economic substrate leveling prior to the application of the final floor finish.
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>■ Factories.</li> <li>■ Manufacturing facilities.</li> <li>■ Commercial buildings.</li> <li>■ Cellars.</li> <li>■ Corridors.</li> <li>■ Warehouses.</li> <li>■ Hospitals.</li> <li>■ Domestic.</li> <li>■ Fast track construction.</li> <li>■ Leveling pre-cast concrete slabs.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ Self-leveling and highly fluid.</li> <li>■ Pumpable or manual application.</li> <li>■ Levels and renovates old floors.</li> <li>■ Rapid drying.</li> <li>■ 4 hrs. walk on time [73°F (23°C)].</li> <li>■ Excellent underlay for tiles, sheet systems and wood floor bonding systems.</li> <li>■ Excellent underlay for resin flooring.</li> <li>■ Low odor.</li> </ul>

### Typical Data

<b>Packaging</b>	55 lb. (25 kg) bag
<b>Color</b>	Concrete Gray
<b>Yield</b>	Approx.. 3.7 gal. (14 L) (0.5 ft³) per bag
	Approximate thickness per 55 lb. (25 kg) bag
	3/16 in (5 mm)                      30 ft² (2.8m²)
	3/8 in (10 mm)                     15 ft² (1.4 m²)
	5/8 in (16 mm)                    9 ft² (0.88 m²)
	1 in (25 mm)                        6 ft² (0.56 m²)
	(The above does not allow for surface porosity, profile or wastage).
<b>Shelf Life</b>	1 year in unopened packaging. Store dry at 40°-75°F (5°-25°C).
<b>Mixing Ratio</b>	1.12 gal. (4.25 L) water per 55 lb. (25 kg) bag

### Properties at 23°C (73°F) and 50 % R.H.

<b>Density ASTM C185</b> (wet mix)	129 lb/ft³ (2.07 kg/L)		
<b>Application Temperature</b> (substrate and ambient)	50°F (10°C) min., 77°F (25°C) max		
<b>Application Thickness</b>	3/16 in (5 mm) min. 1 in (25 mm) max		
<b>Compressive Strength</b>			
<b>ASTM C109, psi (MPa)</b>	<b>50°F (10°C)</b>	<b>73°F (23°C)</b>	<b>86°F (30°C)</b>
24 hrs.	870 (6)	2465 (17)	2610 (18)
3 days	2175 (15)	3770 (26)	3770 (26)
7 days	2610 (18)	4206 (29)	4641 (32)
14 days	3770 (26)	4786 (33)	5076 (35)
28 days	4061 (28)	5511 (38)	5801 (40)
<b>Setting Time ASTM C266</b>			
Initial set	30 min.		
Final set	40 min.		
<b>Flowability ASTM C230</b> (modified)	0 min.	11.8 in (300 mm)	
	15 min.	9.45 in (240 mm)	
<b>Working Time</b>			
1 in (25 mm) thickness	20 min.		
<b>Overcoating</b>	Water-based materials	8 hrs.	
	Solvent-free materials	24 hrs.	
	Solvent-based materials	36 hrs.	
<b>Final Drying Time</b>			
Foot traffic	4 hrs.		
Lightly serviceable	1 day		
Fully serviceable	2 days		
<b>Volume Change ASTM C531</b>			
28 days	+0.036 %		
<b>Pull-Out Strength (on concrete) ASTM C-882</b>			
0.39 in (10 mm) thickness	363 psi (2.50 MPa) (substrate failure)		
1 in (25 mm) thickness	334 psi (2.30 MPa) (substrate failure)		



## How to Use Surface Preparation

The substrate must be saturated surface dry (SSD), free of all contaminants i.e. laitance, oils, grease, surface treatments and coatings etc. The substrate must be prepared mechanically to achieve an open textured fine gripping surface (CSP 4). Weak concrete should be removed and surface defects such as blowholes and spalls must be fully exposed. All dust, loose and friable material must be completely removed before application of the Sikafloor Level 25, preferably by broom and vacuum. The compressive strength of the concrete substrate should be at least 3500 psi (24 MPa) at 28 days and 200 psi (1.4 MPa) in tension at the time Sikafloor Level 25 is applied. All cracks and holes should be filled to prevent seepage through to lower areas. Existing joints in the substrate should be repeated throughout the topping. Do not bridge expansion and control/joint.

Note: For adhesion to smooth, dry and/or porous and weak surfaces, the substrate must be primed, contact Sika Technical Service.

## Mixing

### Hand Application

Add 1.12 gal. (4.25 L) of potable water to a suitably sized mixing container and while mixing slowly add the powder (55 lb/25 kg). Once all the powder has been added continue mixing with a low speed electric mixer (300-400 rpm) for a minimum of 3 min. until a uniform mix has been achieved. Let material stand until the majority of air bubbles have dispersed.

## Application

**Pump:** Use a conventional floor screed dual stage mixer and pump and control the water dosage to achieve a flowable consistency [1.12 gal. (4.25 L) per 55 lb. (25 kg)]. After pumping onto the pre-dampened surface (SSD), spread by trowel or pin screed rake to the required thickness. Thoroughly spike roller in two directions (90°) to remove trowel marks and any entrapped air. **Manual:** Pour the mixed material onto the pre-dampened surface (SSD) and spread by trowel or pin screed rake to the required thickness. Thoroughly spike roller in two directions (90°) to remove trowel marks and any entrapped air.

## Curing

Sikafloor Level 25 must be allowed to air cure. Do not wet cure or use curing and sealing compounds.

## Limitations

- Protect newly applied Sikafloor Level 25 from condensation and water for at least 24 hrs.
- Protect Sikafloor from excess heat and moving air while curing.
- Turn off radiant heating and forced air ventilation systems for 24 hrs.
- Do not exceed the recommended water dosage.
- Low temperatures extend drying times.
- Temperature variations will affect working time.
- Sikafloor Level 25 does not provide an aesthetic finish.
- Not suitable for slopes or inclines > 0.5%.
- For interior use only.
- When overcoating with Sikafloor resins or any subsequent layers of Sikafloor Level 25, mechanical preparation is required to remove any surface laitance that could interfere with the bond.
- Subsequent layers require the surface to be SSD.
- When overcoating Sikafloor Level 25 ensure the moisture content meets the requirements of the coating product.

## Caution

This product contains cement and silica sand that may cause skin and eye irritation. Use rubber gloves. Avoid breathing dust. Use only with adequate ventilation. In confined area, use of a NIOSH approved respirator is recommended. Consult product label for additional information.

## First Aid

**Eyes:** Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin:** Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation:** Remove person to fresh air. **Ingestion:** Do not induce vomiting. Dilute with water. Contact a physician. **In all cases, contact a physician immediately if symptoms persist.**

## Clean Up

Avoid direct contact. Uncured material can be removed from tools and equipment using a suitable solvent. Follow solvent manufacturer's warning and instructions for use. Cured product can only be removed mechanically. Wash thoroughly with soap and water after handling. Do not use solvents! Ventilate area and collect spill. If ventilation is poor, use properly fitted NIOSH respirator. Contain spill and collect with absorbent material. Dispose of excess product and container in accordance with applicable environmental regulations.

KEEP CONTAINER TIGHTLY CLOSED  
NOT FOR INTERNAL CONSUMPTION

KEEP OUT OF REACH OF CHILDREN  
FOR INDUSTRIAL USE ONLY

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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 Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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