**BUILDING TRUST** CONSTRUIRE LA CONFIANCE



## PRODUCT DATA SHEET

Edition 04.2019/v1 CSC Master Format<sup>TM</sup> 03 53 19 (03 54 16) CONCRETE OVERLAYMENT

## Sikafloor<sup>®</sup> Level-25<sup>CA</sup>

CEMENTITIOUS SELF-LEVELLING FLOOR SCREED

Description	Sikafloor <sup>®</sup> Level-25 <sup>cA</sup> is a one component, polymer modified, versatile and durable floor pumpable cementitious screec for interior concrete floors which can be applied manually or by pump to achieve rapid, flat, economic substrate levelling prior to the application of the final floor finish. Typical application thickness 5 - 25 mm (3/16 - 1 in).					
Where to Use	Factories					
where to ose						
	Commercial buildings     Collars					
	■ Cellars					
	Corridors					
	<ul> <li>Warehouses</li> </ul>					
	<ul> <li>Hospitals</li> </ul>					
	Domestic					
	<ul> <li>Fast track construction</li> </ul>					
	<ul> <li>Levelling pre-cast concrete slabs</li> </ul>					
Advantages	<ul> <li>Self-levelling and highly fluid</li> </ul>					
	<ul> <li>Pumpable or manual application</li> </ul>					
	<ul> <li>Levels and renovates old floors</li> <li>Rapid drying</li> </ul>					
	Rapid drying					
	4 hour walk on time [23 °C (73 °F)]					
	<ul> <li>Excellent underlay for tiles, sheet systems and wood floor bonding systems</li> </ul>					
	Excellent underlay for resin	flooring				
	Low odour					
	May be used as a wearing surface					
	Technical Data					
	Packaging	25 kg (55 lb) bag				
	Colour	Concrete Grey				
	Yield     Approx. 14 L (3.7 US gal.) (0.5 ft <sup>3</sup> ) per bag       Approximate thickness per 25 kg (55 lb) bag       Form (2) (65 ft <sup>3</sup> )					
		5 mm (3/16 in)	2.8 m <sup>2</sup> (30 ft <sup>2</sup> )			
		10 mm (3/8 in) 16 mm (5/8 in)	1.4 m² (15 ft²) 0.88 m² (9 ft²)			
		25 mm (1 in)	0.56 m² (6 ft²)			
			/ for surface porosity, profile or wastage).			
	Shelf Life	1 year in unopened packaging. Store dry at temperatures between 5 and 25 °C (41 and 77 °F) ensuring tha				
		product is not exposed to rain, condensation or high humidity.				
	Mix Ratio 4.25 L (1.12 US gal.) water per 25 kg (55 lb) bag					
	Properties at 23 °C (73 °F) and 50 % R.H.					
	Density ASTM C185 (wet mix)	2.07 kg/L (129 lb/ft <sup>3</sup> )				
	Application Temperature	2.07 Kg/L (129 10/10)				
	(substrate and ambient)	10 °C (50 °F) min., 25 °C (77 °F) max.				
	Application Thickness	5 mm (3/16 in) min.				
		25 mm (1 in) max.				
	Compressive Strength					
	ASTM C109, ~MPa (~psi)	23 °C (73 °F)				
	24 hrs	18.8 (2727)				
	3 days		22.8 (3307)			
	7 days	24.5 (3553)				
	14 days 28 (4061)					
	28 days 31 (4496) Setting Time ASTM C266					
	Initial set	30 min				
	Final set	40 min				
	Flowability ASTM C230	0 min	300 mm (11.8 in)			
	(modified)	15 min	240 mm (9.45 in)			
	Working Time					

	Overcoating	Water-based materials Solvent-free materials Solvent-based materials	8 h 24 h 36 h			
	Final Drying Time Foot traffic Lightly serviceable Fully serviceable Volume Change ASTM C531	4 h 1 day 2 days	50 11			
	28 days Pull-Out Strength (on concrete) CSA-A23	+ 0.036 % <b>2-6B</b>				
	10 mm (0.39 in) thickness 25 mm (1 in) thickness	2.50 MPa (362.6 psi) (substrate failure) 2.30 MPa (333.6 psi) (substrate failure)	ations can be expected on-site due to local factors, including environment,			
	preparation, application, curing and test method	s.	anons can be expected on site due to local jactors, mendang environment,			
HOW TO USE	The contration would be down down		and the state of the self the second sector that Developed a			
Surface Preparation & Priming	The substrate must be dry, clean and stable before priming and applying the self-levelling screed material. Remove al existing treatments such as coatings, sealers, wax, latex compounds, impregnations and curing agents, together with all contaminants i.e. dirt, dust, laitance, grease, oils, and foreign matter, which will interfere with the penetration o Sika <sup>®</sup> Level-01 Primer <sup>cA</sup> and the adhesion of Sikafloor <sup>®</sup> Level-25 <sup>CA</sup> .					
	Prepare concrete- and cement-based substrates by mechanical means, such as shotblasting, sandblasting, water-jetting scarifying, or other appropriate methods, to achieve an open-textured, fine-gripping surface profile (ICRI / CSP 4 minimum). Weak concrete should be removed and surface defects such as blowholes and spalls fully exposed and repaired with suitable Sika mortar prior to priming and levelling. All cracks and holes should be similarly filled to prevent seepage of the primer through to lower areas. Consult Sika Canada for recommendations.					
	All loose, friable material including preparation residue, must be completely removed using a vacuum before application of the Sika <sup>®</sup> Level-01 Primer <sup>CA</sup> . The compressive strength of the concrete substrate should be at least 25 MPa (> 3625 psi at 28 days with a minimum tensile strength of 1.5 MPa (218 psi) at the time Sika <sup>®</sup> Level-01 Primer <sup>CA</sup> is applied. Moisture Vapour Emission Rates of the substrate should comply and meet the requirements of the proposed floor covering. Please consult the manufacturer of the final floor finish for advice.					
	Careful consideration should be given to the selection of the method of mechanical surface preparation and the timing of application of the primer and underlayment. Immediately following mechanical preparation on some excessively porous substrates, outgassing will increase for a short period of time (approx. 48 hours) until equilibrium in the slat vapor pressure and the ambient environment is reached. Before overall installation begins, Sika Canada recommends the application of several small test patches to determine primer application requirements and acceptability of final produc performance. In general, a one-coat application of the Sika <sup>®</sup> Level-01 Primer <sup>CA</sup> should be sufficient. However, allowance should be made for double priming on excessively porous substrates. Where multiple coats are required, do not apply excessive material.					
Mixing	Add 4.25 L (1.12 US gal.) of potable water to a suitably sized mixing container and while mixing slowly add the powde (25 kg/55 lb). Once all the powder has been added continue mixing with a low speed electric mixer (300 - 400 rpm) for a minimum of three (3) minutes until a uniform mix has been achieved. Let material stand until the majority of air bubbles have dispersed.					
Application						
Curing						
Curing Clean Up		nust be allowed to air cure. Do not wet cure or use curing and sealing compounds				
Limitations			usation and high humidity as moisture may penetrate			
	<ul> <li>packaging, causing lumps.</li> <li>For best results, condition product to 18 to 29 °C (65 to 84 °F) prior to mixing and installation. Lower temperatures may result in slower strength development and longer cure times.</li> <li>Protect newly applied Sikafloor<sup>®</sup> Level-25<sup>CA</sup> from condensation and water for at least 24 hours.</li> </ul>					
	<ul> <li>Protect Sikafloor<sup>®</sup> from excess heat and moving air while curing.</li> <li>Turn off radiant heating and forced air ventilation systems for 24 hours.</li> </ul>					
	<ul> <li>Turn off radiant heating and forced air ventilation systems for 24 hours.</li> <li>Do not exceed the recommended water dosage.</li> </ul>					
	<ul> <li>Low temperatures extend drying times.</li> </ul>					
	<ul> <li>Temperature variations will affect working time.</li> <li>Sikafloor® Level-25<sup>cA</sup> does not provide an aesthetic finish</li> </ul>					

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	required to remove a	th Sikafloor <sup>®</sup> resins or any sub ny surface laitance that could	interfere with the bond.	el-25 <sup>ca</sup> , mechanical preparation is uirements of the coating product.	
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.				
	KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY				
	The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca				
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