

## PRODUCT DATA SHEET

# Sikafloor®-35 Level Screed (TW)

Cementitious self levelling, screed for use 3–5 mm

### DESCRIPTION

Sikafloor®-35 Level Screed (TW) is a 2 component, polymer modified self levelling, cementitious industrial grade screed for the levelling and smoothing of interior floors. It is suitable to be overcoated to provide it with additional chemical or mechanical protection.

### USES

Sikafloor®-35 Level Screed (TW) can be applied manually at a thickness between 3–5 mm.

- Suitable for interior applications
- Will provide a levelling overcoatable surface prior to the application of epoxy, polyurethane or PMMA resins

### CHARACTERISTICS / ADVANTAGES

- Self levelling
- Fast application because of the good flow and cohesion of the fresh product
- Fast drying even at low temperature and high relative humidity conditions.
- Low shrinkage. Good bond and compaction
- Good hardness

### PRODUCT INFORMATION

<b>Chemical Base</b>	Component A	Polymer modified normal hardening cement
	Component B	Epoxy resin
<b>Packaging</b>	Component A Powder	25 kg/bag
	Component B Resin	20 kg/pail
	A+B	Comp. A (25 kg/bag x 4 bags) + Comp. B (20kg/pail x 1pail) ready for use
<b>Appearance / Colour</b>	Component A Powder	Grey
	Component B Resin	Milky white
<b>Shelf Life</b>	6 months from date of production	
<b>Storage Conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C.	
<b>Density</b>	1.6 kg/l ± 0.05 (bulk powder)	

## TECHNICAL INFORMATION

Compressive Strength	~ 315 kg/cm <sup>2</sup> / 4500 psi (28 days)	CNS 1010
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## SYSTEM INFORMATION

System Structure	<p><b>Priming</b> The one component acrylic primer Sikafloor®-35 Level Screed (TW) is recommended for a pore free surface with very good surface adhesion. Please refer to the relevant PDS for the recommended application details etc.</p> <p><b>Levelling</b> Apply to the required thickness 3–5 mm.</p>
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## APPLICATION INFORMATION

Consumption	<p>~ 1.6 ± 0.05 kg/m<sup>2</sup>/mm (powder) This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.</p>
Layer Thickness	<p>3 mm min. / 5 mm max. additional aggregate is not recommended to increase the application thickness</p>
Ambient Air Temperature	<p>+10 °C min. / +30 °C max. For increased surface strength and better bond of the floor finish when using water based adhesives, it is recommended for best results to apply the mortar at ambient and substrate temperatures between 15 °C and 25 °C.</p>
Relative Air Humidity	<p>&lt; 75 % max.</p>
Substrate Temperature	<p>+10 °C min. / +30 °C max. <b>Dew Point</b> Beware of condensation! The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation, blooming or cement laitance on the floor finish.</p>
Substrate Pre-Treatment	<p><b>Substrate Moisture Content</b> There must be no rising moisture prior to the dampening operation according to ASTM D 4263 (Polyethylene-sheet test).</p>
Pot Life	<p>20 minutes +23 °C / 50 % r.h. The temperature will affect the pot life. Application at temperatures above +23 °C will reduce the pot life and the working time. Temperatures below +23 °C will increase the pot life and extend the working time.</p>
Waiting Time / Overcoating	<p>Suitable for overcoating with impermeable or moisture sensitive floors after drying (max. 4 % humidity); normally reached after 24 hours. Times are approximate and at +23 °C and 50% r.h. and thus will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity. When over coating Sikafloor®-35 Level Screed (TW) always ensure the moisture content has achieved the required value for the coating product, as the waiting time will vary with the application thickness and ambient humidity. (Refer to the top coat product data sheet)</p>

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LIMITATIONS

- Very absorbent substrates must be saturated with water or primed to prevent loss of the mixing resin into the substrate and which can cause problems such as shrinkage, the appearance of surface pores or weak and dusty surfaces etc.
- Do not mix with other cements or cement based screeds.
- Freshly applied Sikafloor®-35 Level Screed (TW) must be protected from damp, condensation and water for at least 24 hours.

- Do not exceed the recommended mixing ratio. Do not add more water when the product is starting to set. Do not exceed the recommended thicknesses.
- Temperatures below +20 °C and high ambient relative humidity extend the drying times.
- Not suitable for slopes or inclines > 1.0 %.
- Protect from direct sunlight, hot or strong winds and extremes of temperature just after application, to avoid cracking or crazing.
- When overcoating additional mechanical preparation may be required to remove any cement laitance which may have formed during application.

## ECOLOGY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The concrete substrate must be sound and of sufficient compressive strength (min. 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.

The surface must be clean, dry and free of all contaminants e.g. dirt, oils, grease, coatings and surface treatments etc.

If in doubt apply a test area first.

### EQUIPMENT

Pour the mixed material onto the prepared surface and apply by trowel or pin screed rake to the required thickness. Roll thoroughly with a spiked roller in two directions to remove any entrapped air.

### MIXING

When mixing manually add the dry powder (25 kg) into a container with the prepared resin Sikafloor®-35 Level Latex (TW). By 5 : 1 mixing ratio. And mix thoroughly.

#### Mixing Time

Mix thoroughly for a minimum of 3 minutes.

#### Mixing Tools

Use an electric stirrer (< 500 rpm).

### APPLICATION

Pour the mixed material onto the prepared surface and apply by trowel or pin screed rake to the required thickness. Roll thoroughly with a spiked roller in two directions to remove any entrapped air.

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use.

Hardened / cured material can only be removed mechanically.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## LEGAL NOTES

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 in accordance with Sika's recommendations. 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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

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