

## PRODUCT DATA SHEET

# Sikafloor<sup>®</sup>-33

(formerly MTop 33)

1-Part Curing aid, hardening, sealing and dust proofing compound for concrete

### DESCRIPTION

Sikafloor<sup>®</sup>-33 is a clear, inorganic, water-soluble, curing, hardening, sealing and dustproofing compound. It is easy to apply, leaves no residue and dries quickly. It contains no VOC's.

### USES

Horizontal old or new concrete surfaces. Applications include:

- Concrete floors and pavements
- Curing of fresh concrete
- Renovation of aged concrete
- Industrial, processing and brewing plants
- Educational, medical and nursing facilities
- Utility, public and multi-residential buildings
- Warehouses & storage areas
- Aircraft hangers, workshops & garages
- Public parking areas

### CHARACTERISTICS / ADVANTAGES

- Ready to use
- Easy to apply
- Improved abrasion resistance
- Effective consolidation - reduced dusting
- Protects floors during construction
- Maintains breathability of surface
- Aid for curing new concrete
- Imparts life time sheen (best if polished)

### PRODUCT INFORMATION

<b>Packaging</b>	20 lt. container
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	The product must be stored properly in original, unopened and undamaged packaging, in dry conditions at temperatures between +5 °C and +30 °C. Protect from frost.
<b>Appearance / Colour</b>	Clear liquid
<b>Density</b>	~1.20 kg/L (at +27 °C)
<b>Solid content by weight</b>	~25 %
<b>Abrasion resistance</b>	> 40% Improvement over control panel (ASTM C501)
<b>Compressive strength</b>	> 15% Improvement over control panel (Rebound Hammer Test)

### SYSTEM INFORMATION

## APPLICATION INFORMATION

<b>Consumption</b>	0.15–0.25 kg/m <sup>2</sup> per coat This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.	
<b>Ambient air temperature</b>	+5 °C min. / +35 °C max.	
<b>Relative air humidity</b>	100% max.	
<b>Substrate temperature</b>	+5 °C min. / +35 °C max.	
<b>Waiting time / Overcoating</b>	Where 2 coats are required, to ensure maximum densification, the second coat can be installed 2–4 hours following the first. Allow previous coats to become tack free before applying additional coats	
	Temperature	Time
	+10 °C	~3 hours
	+20 °C	~2 hours
	+30 °C	~1.5 hours
	Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity	
<b>Drying time</b>	The surface is touch-dry after 2 hours at +20 °C. Maximum sealing and hardening effect achieved after ~7 days at +20 °C.	
<b>Applied product ready for use</b>	Substrate temperature	Fully serviceable
	+10 °C	~24 hours
	+20 °C	~18 hours
	+30 °C	~10 hours
	Note: treated concrete surface must not be wetted for the first 3 days at least. This could lead to efflorescence.	
	Note: Times are approximate and will be affected by changing ambient and substrate conditions.	

## 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.

## IMPORTANT CONSIDERATIONS

- Do not use sprayers which have previously been used for spraying silicones or release agents (oils).
- In hot weather (above +25 °C) store Sikafloor®-33 in a cool place prior to use.
- At low temperatures (below +10 °C) the product may thicken and be difficult to spray.
- Do not mix different formulations of Sika® or other curing membranes.
- Ensure spraying equipment is cleaned thoroughly prior to use and any residues of previous membranes are removed.
- Sikafloor®-33 must be treated mechanically (from light to heavy shot blasting depending on the depth of the penetration) prior to the application of a coating system.
- Immediately wash over-spray from glass, aluminium or highly polished surfaces with water to avoid etching of surfaces.
- Do not use on substrates treated previously with curing agents, membrane forming sealers or asphalt until these layers have been removed completely.
- Sikafloor®-33 is not a curing compound, only use as curing for unregulated specification application.
- Gel time may be increased at low temperatures (below +10 °C), high humidity (from 80 % to 100 %) or wind free conditions.
- In hot weather conditions (above +25 °C), gelling may occur before material has penetrated sufficiently. In such case, apply additional Sikafloor®-33 to keep the surface wet for the recommended 30 minutes.
- When applying, leave no dry spots in order to have homogenous performance. Touch up where necessary.
- For both old and new concrete, thoroughly wash and remove residue or excess material. This is important as it is difficult to do so if allowed to dry and may result in unsightly white stains. This residue solution is non-toxic and can be emptied into a sanitary sewer.
- Performance enhancement of the substrates will vary greatly depending on the age, cement content, humidity content, porosity and penetration of the product into the substrate.
- Sikafloor®-33 will not compensate for poor sub-

strates with low cement content. It is not intended for substrates which are lightweight or extremely porous or have worn (aggregate exposed) surfaces.

- Sikafloor®-33 will not hide serious staining or excessive wear.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

#### Fresh concrete $\geq 7$ days

The curing period ( $\geq 7$  days) must be designed so that the areas near the surface achieve the structural strength and impermeability required for durability of the concrete, and corrosion protection of the reinforcement. Strength development is closely connected to the concrete composition, fresh concrete temperature, ambient conditions, concrete dimensions and the curing period required is influenced by the same factors

#### Hardened / old concrete

Surfaces must be sound, open textured, clean, free from frost, laitance, surface water, oils, grease, coatings, all loosely adhering particles and other surface contaminants. If in doubt apply a test area first.

### SUBSTRATE PREPARATION

#### Fresh concrete

The concrete must be prepared by power or manual floating / tamping techniques and be cured with water spray, blankets or plastic sheets for at least 7 days.

#### Hardened / old concrete

1. The substrate must be prepared by high pressure water cleaning or by ride-on cleaning machines. Allow to dry prior to application.
2. All dust, dirt, loose and friable material must be completely removed from all surfaces by brush and / or vacuum before application of the product.

## APPLICATION

### IMPORTANT

The chemical reaction between Sikafloor®-33 and the concrete causes the rate of water-tightness to increase gradually.

### IMPORTANT

The maximum sealing and hardening effect occurs after a minimum of 7 days.

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#### Product Data Sheet

Sikafloor®-33

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## IMPORTANT

Gloss of the treated surface gradually increases between 30 to 90 days after application depending upon cleaning frequency.

- Apply Sikafloor®-33 in a continuous film using a high volume low pressure spray unit.
- Scrub material into the surface with a soft bristle broom or floor-scrubbing machine (min. 30 minutes), until the material begins to gel and becomes slippery.
- Wet the material slightly with a water spray and re-work it into the surface for another 10 to 20 minutes.
- After about 20 minutes, the material will return to a gel, rinse the floor and remove any excess material using a squeegee, wet vacuum or mop.
- On porous, rough-textured or broom-finished surfaces, a second coat Sikafloor®-33 is required.
- For large surfaces and higher placing rates, ride-on cleaning machines can be used to place, brush in and remove the excess material from the surface.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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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