

## PRODUCT DATA SHEET

# Sikafloor® CureHard-24

Sodium silicate liquid surface hardener and dust proofer for concrete

### DESCRIPTION

Sikafloor® CureHard-24 is a high volume solids, one-part, clear, sodium silicate-based liquid used to harden and densify fresh or hardened concrete.

### USES

Sikafloor® CureHard-24 may only be used by experienced professionals.

Sikafloor® CureHard-24 is used for:

- Hardening and densifying concrete surfaces where a hard surface with light to moderate abrasion resistance is required
- Dust-proofing prefabricated concrete elements

Sikafloor® CureHard-24 is used on the following substrates:

- Horizontal old or new concrete surfaces
- Prefabricated concrete elements

Sikafloor® CureHard-24 is used for the following areas:

- Industrial buildings
- Commercial and public buildings

Sikafloor® CureHard-24 is used for interior and exterior applications.

### CHARACTERISTICS / ADVANTAGES

- Treated concrete has reduced dust emissions when compared to the same concrete, untreated.
- Treated concrete has increased abrasion resistance when compared to the same concrete, untreated
- Seals concrete surfaces
- Very good yellowing resistance
- One-part, ready to use
- Easy to apply
- High gloss with regular cleaning and polishing
- Odourless

### PRODUCT INFORMATION

<b>Composition</b>	Sodium silicate water dilution
<b>Packaging</b>	20 L container
<b>Appearance / Colour</b>	Clear liquid
<b>Shelf Life</b>	24 months from date of production

**Storage Conditions**

The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +40 °C. Always refer to the packaging.  
Refer to the current Safety Data Sheet for information on safe handling and storage.

Density	1.2 kg/L (at +20 °C)	(EN ISO 2811-1)
Solid content by weight	24 %	

**TECHNICAL INFORMATION**

Resistance to Impact	60 Nm (class III: $\geq 20$ Nm) Applied to a sample MC(0.40) concrete according to EN 1766:2000	(EN ISO 6272-1)
Penetration Depth	5.5 mm Applied to a sample MC(0.70) concrete according to EN 1766:2000	(EN 1504-2)
Water Absorption	$w = 0.03 \text{ kg}\cdot\text{m}^{-2}\cdot\text{h}^{-0.5}$ (on a substrate $w > 1 \text{ kg}\cdot\text{m}^{-2}\cdot\text{h}^{-0.5}$ )	(EN 1062-3)

**APPLICATION INFORMATION**

Consumption	0.15–0.25 L/m <sup>2</sup> per coat (4–7 m <sup>2</sup> /L per coat) on power trowelled concrete Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.	
Product Temperature	Maximum	+35 °C
	Maximum	+5 °C
Ambient Air Temperature	Maximum	+35 °C
	Minimum	+5 °C
Relative Air Humidity	Maximum	100 %
Substrate Temperature	Maximum	+35 °C
	Minimum	+5 °C
Waiting Time / Overcoating	+5 °C and 50 % r.h.	3.5 hours
	+10 °C and 50 % r.h.	3 hours
	+20 °C and 50 % r.h.	2 hours
	+30 °C and 50 % r.h.	1.5 hours
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.		
Applied Product Ready for Use	<b>Temperature</b>	<b>Full cure</b>
	+10 °C	6 hours
	+20 °C	5 hours
	+30 °C	4 hours
Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.		
Drying Time	Touch-dry, at +20 °C	2 hours
	Maximum sealing and hardening, at +20 °C	7 days

Strength development and the curing period are dependant on the following factors:

- Concrete composition
- Fresh concrete temperature
- Ambient conditions
- Concrete dimensions

## 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

### Surface permeability development

Note: The chemical reaction between Sikafloor® CureHard-24 and the concrete causes the rate of surface permeability to decrease gradually.

### Treated substrate performance enhancement

Note: Performance enhancement of the treated substrate will vary greatly depending on the age, cement content, humidity content, porosity and penetration of Sikafloor® CureHard-24 into the substrate.

## 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

#### Unsuitable substrate conditions for application

Note: Sikafloor® CureHard-24 will not compensate for poor substrates with low cement content.

Note: Sikafloor® CureHard-24 is not intended for substrates which are lightweight, extremely porous, or have worn surfaces with exposed aggregates.

Note: Sikafloor® CureHard-24 will not hide serious staining or excessive wear.

#### FRESH CONCRETE ≥ 7 DAYS

The fresh concrete curing period must be long enough for the surface to achieve structural strength and impermeability sufficient to provide the required concrete durability and corrosion protection of the steel reinforcement.

#### HARDENED OR OLD CONCRETE

Cementitious substrates must be structurally sound, clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

If in doubt apply a test area first.

## SUBSTRATE PREPARATION

### IMPORTANT

#### Poor penetration and adhesion due to existing surface treatments

Concrete surfaces with existing applications of curing agents, membrane-forming sealers, or asphalt will negatively affect the penetration depth and performance of Sikafloor® CureHard-24.

1. Remove any existing surface treatments completely from the concrete prior to application.

### FRESH CONCRETE

1. Finish the concrete using power floating, manual floating or tamping techniques.
2. Leave the concrete to cure for at least 7 days with waterspray, blankets or plastic sheets.

### HARDENED OR OLD CONCRETE

1. Clean the concrete surface with water using high-pressure cleaners or ride-on cleaning machines.
2. Allow the substrate to dry completely.
3. Remove all dust, dirt, loose and friable material completely from all surfaces with a brush or vacuum cleaner.

## APPLICATION

### IMPORTANT

#### Damage to non-concrete substrates due to etching

If left in contact with glass, aluminium, or highly polished finishes, Sikafloor® CureHard-24 can etch the surface.

1. Immediately wash off overspray with water from surfaces that are not to be treated.

#### Hot weather, working above +25 °C

*Note: In hot weather conditions, gelling may occur before Sikafloor® CureHard-24 has penetrated the substrate sufficiently.*

1. Store the Sikafloor® CureHard-24 in a cool and dry place prior to use.
2. Apply additional material to keep the surface wet during the scrubbing process.

#### Cold weather, working below +10 °C

*Note: At low temperatures, Sikafloor® CureHard-24 may thicken and be difficult to spray.*

1. Observe the recommended storage and application temperatures.

## Exposing the treated surface to moisture after application

*Note: Exposure to moisture before Sikafloor® CureHard-24 has fully reacted with the concrete surface can cause efflorescence. Efflorescence can only be removed from the surface mechanically.*

1. Protect the treated concrete surface from moisture for at least 3 days after application.

### Preconditions

The spraying equipment has been thoroughly cleaned to remove any residue of previous materials/membranes.

1. **IMPORTANT!** Do not use sprayers that have previously been used to spray silicones or release agents. Apply Sikafloor® CureHard-24 in a continuous film using a high-volume, low-pressure spray unit. (*Note: Touch up any dry spots on the surface where necessary.*)
2. Scrub the material into the surface with a soft bristle broom or floor-scrubbing machine for a minimum of 30 minutes, until the material begins to gel and becomes slippery. (*Note: Gelification time may be increased at low temperatures (below +10 °C), high humidity (from 80 % to 100 %) or wind-free conditions.*)
3. Wet the material slightly with a water spray and rework it into the surface for another 10 to 20 minutes.
4. **IMPORTANT!** Dried residue or excess material will leave white stains that can only be removed mechanically. After about 20 minutes, when the material has returned to a gel, rinse the floor and remove any excess material using a squeegee, wet vacuum or mop.
5. On porous, rough-textured or brush-finished surfaces, a second coat is required. (*Note: Apply the second coat after the first coat is dry and tack-free.*)
6. For large surfaces, ride-on cleaning machines can be used to place, brush in and remove the excess material from the surface.
7. Prior to application of any subsequent coating system, abrade the surface mechanically. (*Note: Use light to heavy shot blasting depending on the depth of Sikafloor® CureHard-24 penetration.*)

### CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

## MAINTENANCE

### Surface gloss development

*Note: Gloss of the power-floated and treated surface (with Sikafloor® CureHard-24) gradually increases between 30 to 90 days after application, depending on cleaning and polishing frequency.*

### LOCAL RESTRICTIONS

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

### 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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#### Product Data Sheet

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