

# PRODUCT DATA SHEET

## Sikafloor<sup>®</sup>-20 ZA

High strength, chemical and thermal shock resistant polyurethane hybrid trowel grade flooring screed with high slip resistance

### DESCRIPTION

Sikafloor<sup>®</sup>-20 ZA is a multi-component, water based colored polyurethane hybrid flooring screed. It has flat, high abrasion, chemical, impact and high slip-resistant finish.

### USES

The Product is used as a wearing layer and levelling screed flooring system.

Please note:

- The Product may only be used by experienced professionals.

### CHARACTERISTICS / ADVANTAGES

- Good resistance to specific chemicals
- High mechanical resistance
- Non-tainting
- Odourless
- Thermal expansion properties similar to concrete
- Tolerant to substrates with high moisture content

### PRODUCT INFORMATION

<b>Chemical Base</b>	Water-based polyurethane cement hybrid		
<b>Packaging</b>	Container Part A	3 kg	
	Container Part B	3 kg	
	Part C	26.5 kg bag	
	Packaging combined	32.5 kg ready to mix units	
<b>Appearance / Colour</b>	Part A	Coloured liquid	
	Part B	Brown liquid	
	Part C	Natural grey powder	
	Cured appearance	Matt finish	
	Cured colour	Telegrey 1&2, Beige, Golden Yellow, Dusty Grey, Traffic Red, Oxide Red, Light Grey, Dark Grey, Sky Blue, Leaf Green	
<b>Shelf Life</b>	Part A	12 months from date of production	
	Part B	12 months from date of production	
	Part C	12 months from date of production	
<b>Storage Conditions</b>			
<b>Density</b>	Mixed Product	~2.08 kg/l at +20 °C	(EN ISO 2811-1)

## TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C	85	(ASTM D2240)
Compressive Strength	Cured 28 days at +23 °C	50 N/mm <sup>2</sup>	(EN 13892-2)
Tensile Strength	Cured 28 days at +23 °C	10 N/mm <sup>2</sup>	(EN 13892-2)
Reaction to Fire	Class B <sub>fl</sub> -s1		(EN 13501-1)

## APPLICATION INFORMATION

Mixing Ratio	Part A : Part B : Part C	3.0 : 3.0 : 26.5
Consumption	~2.1 kg/m <sup>2</sup> per mm thickness	
Layer Thickness	Wear coat	6-9 mm
	Levelling screed	12-30 mm (where defined aggregates are added)
Product Temperature	<b>Sikafloor®-20 ZA</b>	
	Minimum	+10 °C
	Maximum	+35 °C
Ambient Air Temperature	Minimum	+10 °C
	Maximum	+35 °C
Relative Air Humidity	Maximum	80 %
Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.	
Substrate Temperature	Minimum	+10 °C
	Maximum	+35 °C
Substrate Moisture Content	The Product can be installed on substrates with a higher moisture content. No ponding water may be present on the surface. Check for rising moisture. The substrate must be visibly dry and must have a minimum pull-off strength of 1.5 N/mm <sup>2</sup> .	
Pot Life	+10 °C	~40 minutes
	+20 °C	~25 minutes
	+30 °C	~18 minutes
	+35 °C	~15 minutes
Waiting Time / Overcoating	Before overcoating the Product allow:	
	<b>Substrate temperature</b>	<b>Minimum</b> <b>Maximum</b>
	+10 °C	24 hours      72 hours
	+20 °C	24 hours      48 hours
	+30 °C	12 hours      24 hours
	+35 °C	12 hours      24 hours
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.	
	Note: If a primer other than a scratch coat of Sikafloor PurCem is applied, refer to the relevant PDS of the chosen product for curing times. Ensure that the primer or scratch coat is fully cured before the application of subsequent Sikafloor-20 ZA layers.	

## 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.

## USES

### IMPORTANT

#### **Dirt pick up in slow curing conditions**

In some slow curing conditions, soiling of the surface may occur when opened to foot traffic, even though mechanical properties have been achieved.

1. Remove dirt using a dry mop or cloth.
2. Do not scrub the Product with water for the first three days.

## FURTHER DOCUMENTS

- Sika Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement: Mixing & Application of Flooring Systems

## ECOLOGY HEALTH AND SAFETY

## APPLICATION INSTRUCTIONS

### EQUIPMENT

#### MIXING EQUIPMENT

- Electric single paddle mixer (300 to 400 rpm)
- Electric double paddle mixer (>700 W, 300 to 400 rpm)
- Forced action / rotating pan / double paddle or trough type mixer (300–400 rpm)

#### APPLICATION EQUIPMENT

- Flat, round edge steel trowel
- Short pile roller

### SUBSTRATE QUALITY / PRE-TREATMENT

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum. Pull of strength shall not be less than 1.5 N/mm<sup>2</sup>. If in doubt apply a test area first.

### MIXING

#### 3 PART MIXING PROCEDURE

1. Mix Part A (resin) for ~30 seconds.
2. Add Part D (colour pack) to Part A.
3. Mix Part A + B continuously for 30 seconds until a uniformly coloured mix is achieved.
4. Pour the mixed resin Parts into the pan mixer.
5. Start the pan mixer and gradually add Part C (aggregate) to the mixed resin Parts over a period of 15 seconds.
6. After combining all parts, mix for an additional 2 minutes, until a uniform mix is achieved. Note: At ambient temperatures less than +15 °C mix between 30 seconds and 1 minute longer.

7. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

### APPLICATION

#### IMPORTANT

#### **Protecting the material after application**

After application, protect the System from damp, condensation and direct water contact for at least 24 hours.

#### IMPORTANT

#### **Protect from overhead leaks and condensation**

Protect the Product during application from pipe condensation or any overhead leaks.

#### IMPORTANT

#### **Ventilation in confined spaces**

Always ensure good ventilation when applying the Product in a confined space.

#### IMPORTANT

#### **Application on polymer modified cement mortars**

Do not apply the product on polymer modified cement mortars if the mortar expands when sealed with an impervious resin.

#### IMPORTANT

#### **Waiting time for foodstuff**

Allow a minimum of 48 hours after application before placing foodstuff in the same area.

#### RESIN SCREED

1. Pour the mixed Product "wet on wet" onto the still tacky primer. Note: The consumption is specified in Application Information.
2. Spread and compact the Product with a trowel to the required thickness between screed rails / battens, if installed.
3. Level the screed surface with a levelling beam spanning onto the screed rails / battens.
4. Finish the surface to the required surface texture with trowels or walk-behind power floats.

### CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically.

## 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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