

## PRODUCT DATA SHEET

# Sikafloor®-4400 DecoCem

Decorative, self-levelling, hybrid-cementitious flooring compound

## DESCRIPTION

Sikafloor®-4400 DecoCem is a decorative, self-levelling, pigmented flooring compound. It is based on Hybrid-Active-Dry-Technology, which provides excellent application properties, is fast-setting and has very low shrinkage.

## USES

Sikafloor®-4400 DecoCem may only be used by experienced professionals.

The Product is used as a:

- Bonded decorative levelling compound for commercial and residential floors

Please note:

- The Product may only be used by experienced professionals
- The Product may only be used for interior applications

## FEATURES

- Suitable for use in areas with high requirements for indoor air quality
- Quick drying and setting
- Good mechanical resistance
- Good resistance to abrasion
- Low shrinkage, to reduce potential for cracking
- Suitable for application on subfloor heating systems

## PRODUCT INFORMATION

<b>Product declaration</b>	EN 13813:2002	Class CA-C35-F10-A12
<b>Composition</b>	Hybrid technology, containing calcium sulphate and cement, pigmented	
<b>Packaging</b>	20 kg	Refer to the current price list for available packaging variations.
<b>Shelf life</b>	9 months from date of production	

## SUSTAINABILITY

- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4
- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4
- VOC emission classification GEV Emission EC1<sup>plus</sup>
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

## CERTIFICATES AND TEST REPORTS

- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Calcium sulfate screed material

<b>Storage conditions</b>	The Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to the packaging Refer to the current Safety Data Sheet for information on safe handling and storage.
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<b>Appearance and colour</b>	Powder, pigmented, colours: ivory white, light grey, grey
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## TECHNICAL INFORMATION

<b>Abrasion resistance</b>	<u>Class A12</u> <u>11 cm <sup>3</sup> / 50 cm <sup>2</sup>	(EN 13892-3)
<b>Compressive strength</b>	<u>Conditioned 28 d at +20 °C</u> ≥ 35 N/mm <sup>2</sup>	(EN 13892-2)
<b>Flexural-strength</b>	<u>Conditioned 28 d at +20 °C</u> ≥10 N/mm <sup>2</sup>	(EN 13892-2)
<b>Tensile adhesion strength</b>	>1.0 N/mm <sup>2</sup> (concrete failure)	(EN 1542)

## APPLICATION INFORMATION

<b>Consumption</b>	1.6 kg/m <sup>2</sup> per mm of thickness 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 product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.	
<b>Layer thickness</b>	<u>Maximum</u>	<u>10 mm</u>
	<u>Minimum</u>	<u>5 mm</u>
<b>Material temperature</b>	<u>Maximum</u>	<u>+30 °C</u>
	<u>Minimum</u>	<u>+10 °C</u>
<b>Ambient air temperature</b>	<u>Maximum</u>	<u>+30 °C</u>
	<u>Minimum</u>	<u>+10 °C</u>
<b>Relative air humidity</b>	<u>Maximum</u>	<u>75 %</u>
<b>Mixing ratio</b>	<u>Pourable consistency</u>	<u>4.1-4.3 L per bag</u>
<b>Substrate temperature</b>	<u>Maximum</u>	<u>+25 °C</u>
	<u>Minimum</u>	<u>+10 °C</u>
<b>Pot Life</b>	<u>At +20 °C</u>	<u>20 minutes</u>
<b>Waiting time to overcoating</b>	Allow 12 hours before overcoating Sikafloor®-4400 DecoCem. Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.	
<b>Applied product ready for use</b>	<u>Substrate temperature</u>	<u>Foot traffic</u>
	<u>+20 °C</u>	<u>2 hours</u>
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.	

## 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.

## ECOLOGY, HEALTH AND SAFETY

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

Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 20 N/mm<sup>2</sup>) with a minimum tensile strength of 1.0 N/mm<sup>2</sup>.

Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, polish, coatings, adhesives, varnish, laitance, surface treatments and loose friable material. Remove separation and sinter layers.

## SUBSTRATE PREPARATION

### IMPORTANT

#### **Incorrect treatment of cracks**

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

### IMPORTANT

#### **Surface defects due to voids in the substrate**

Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.

1. Fully expose blow holes and voids during surface preparation to identify the required repairs

## TREATMENT OF JOINTS AND CRACKS

Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

1. Remove weak cementitious substrates
2. **IMPORTANT** The final texture of the substrate must be open-textured and gripping. Prepare cementitious substrates mechanically using abrasive blast cleaning, planing or scarifying equipment to remove cement laitance
3. Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product
4. Bring edge and movement joints through the floor surface. Note: Protect the joints so the Product cannot flow into them
5. To prevent the Product from bonding, install isolating strips to vertical perimeter surfaces such as pipes, ducts, conduits, walls, columns
6. Use products from the Sikafloor®, Sikadur® and Sikagard® range of materials to level the surface or fill cracks, blow holes and voids

Contact Sika® Technical Services for additional information on products for levelling and repairing defects.

## MIXING

### IMPORTANT

#### **Incompatibility with Portland cement**

The Product is a calcium sulphate-based mortar which can expand in contact with standard Portland cements before it has fully cured.

1. Do not use mixing equipment for calcium sulphate-based materials that has previously mixed other cement-based mortars

#### **Aesthetic variations in floor finish through inconsistent mixing**

Note: Variations in mixing times, water addition and application times can result in colour variations

between mixes.

1. Maintain a continuous and identical mixing and application process
2. Pour the minimum amount of water into a suitable clean mixing container
3. Gradually add the powder to the water while stirring slowly. Use an electric single paddle mixer (< 600 rpm) with a helical disc-shaped mixing paddle
4. Mix continuously for 2 minutes until a uniform mix is achieved
5. Leave to stand for 2 minutes
6. Mix for a further 10 seconds

## APPLICATION

### IMPORTANT

#### **Strictly follow installation and maintenance procedures**

Strictly follow installation and maintenance procedures as defined in Method Statements, application manuals and working instructions, which must always be adjusted to the actual site conditions.

### IMPORTANT

#### **No application on rising moisture**

Do not apply on substrates with rising moisture.

### IMPORTANT

#### **Ensuring consistent colour matching**

For consistent colour matching, make sure the Product in each area is applied from the same control batch numbers.

### IMPORTANT

#### **Risk of cracking during curing**

Allowing the Product surface to dry excessively and quickly during the curing period will result in surface cracking.

1. Protect the freshly applied Product from high ambient temperatures, direct sunlight and draughts

### IMPORTANT

#### **Risk of surface marking**

While the Product is uncoated, there is a risk of surface staining and scratching from dirt, spillages and scuffing.

1. Wear clean shoe protection covers when trafficking the uncoated surface.

#### **Colour variation from natural aggregates**

Note: Natural aggregates are not uniform and may result in slight colour differences, which is normal for a mineral floor.

### Preconditions

The substrate should be primed and have a pore free surface in order to achieve the best decorative finish.

1. Pour the Product onto the surface
2. Apply the Product evenly over the surface with a trowel, pin leveler or screed rake to the required thickness
3. **IMPORTANT:** Do not use a spiked roller to smooth the surface. Smooth the surface with a smoothing trowel
4. Maintain a wet edge between mixes during application
5. Apply a seal coat to the Product to enhance the surface colour, improve the stain resistance and make cleaning easier

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with water 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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### Product Data Sheet

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