

PRODUCT DATA SHEET

Sikafloor®-4400 DecoCem

Decorative, self-levelling, hybrid-cementitious flooring compound

DESCRIPTION

Sikafloor®-4400 DecoCem is a decorative, self-leveling, 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

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

Product declaration	EN 13813:2002	Class CA-C35-F10-A12
Composition	Hybrid technology, containing calcium sulphate and cement, pigmented	
Packaging	20 kg	Refer to the current price list for available packaging variations.
Shelf life	9 months from date of production	
Storage conditions	The Product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +35 °C. Always	

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^{plus}
- 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

refer to the packaging
Refer to the current Safety Data Sheet for information on safe handling and storage.

Appearance and colour	Powder, pigmented, colours : ivory white, light grey, grey Please contact our customer service, for information of which colors are sold in Denmark.
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TECHNICAL INFORMATION

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

APPLICATION INFORMATION

Mixing ratio	Pourable consistency	4.1-4.3 L per bag
Consumption	1.6 kg/m ² 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.	
Layer thickness	Maximum	10 mm
	Minimum	5 mm
Material temperature	Maximum	+30 °C
	Minimum	+10 °C
Ambient air temperature	Maximum	+30 °C
	Minimum	+10 °C
Relative air humidity	Maximum	75 %
Substrate temperature	Maximum	+25 °C
	Minimum	+10 °C
Pot Life	At +20 °C	20 minutes
Waiting time to overcoating	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.	
Applied product ready for use	Substrate temperature +20 °C	Foot traffic 2 hours
	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/mm²) with a minimum tensile strength of 1.0 N/mm².

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.
1. Pour the minimum amount of water into a suitable clean mixing container.
2. 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.
3. Mix continuously for 2 minutes until a uniform mix is achieved.
4. Leave to stand for 2 minutes.
5. 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 leveller 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.

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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 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

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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