

PRODUCT DATA SHEET

Sikafloor®-1 MetalTop

Metallic dry-shake floor hardener

PRODUCT DESCRIPTION

Sikafloor®-1 MetalTop is a 1-part, pre-blended, coloured, metallic dry-shake hardener for concrete. It comprises cement, hard metallic non-corroding aggregates, special admixtures and pigments.

USES

Sikafloor®-1 MetalTop installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

Sikafloor®-1 MetalTop is used as a:

- Metallic dry-shake topping for monolithic floors in industrial buildings
- Floor topping with heavy-duty, prestige and high-durability requirements

Please note:

- The Product may only be used by experienced professionals.

PRODUCT INFORMATION

Chemical Base	Industrial source of 100% crushed and graded metallic aggregates mixed with cement, pigments and admixtures
Packaging	25 kg Refer to the current price list for available packaging variations.
Colour	Natural (concrete grey). Other colours upon request.
Shelf Life	12 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 +30 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.
Bulk Density	2500 kg/m ³ (ISO 697)
Colour	Powder

CHARACTERISTICS / ADVANTAGES

- Highest wear resistance rating
- Extremely high impact resistance
- Non-staining
- Non-corroding
- Cost-effective, long-life floor
- Low maintenance
- Slip-resistant surface possible
- Dust-proof
- Wide range of colours available

APPROVALS / STANDARDS

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

TECHNICAL INFORMATION

Abrasion Resistance	AR 0.5	Abrasion depth 20 µm	BCA	(BS EN 13892-4)
	A1.5	Abrasion depth up to 1.5 cm ³ /50 cm ²	Böhme	(EN 13892-3)

Tested on concrete samples with a Product consumption of 7 kg/m²

APPLICATION INFORMATION

Consumption	5–7 kg/m ² 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.	
Layer Thickness	Maximum	3.0 mm
	Minimum	2.5 mm
Ambient Air Temperature	Maximum	+30 °C
	Minimum	+5 °C
Relative Air Humidity	Maximum	98 %
	Minimum	30 %

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

IMPORTANT

Poor finish due to unsuitable additives

A poor quality finish can result from using compactable dry-shake hardeners on concrete with unsuitable additives. The correct selection of additives to concrete is crucial for the concrete mix design. Contact Sika Technical Services for further advice.

1. Do not use air-entraining agents. Air-entrained concrete is not a suitable substrate for the application of dry-shake hardeners.
2. Do not use concrete where some cement has been replaced by fly ash, as this makes the mix sticky and

- less workable.
3. Use Sikament® or Sika Viscocrete® super plasticisers to ensure the optimum quality of concrete, and – where fibres are used –, their optimum dispersion within the mix.

The concrete deliveries must be of consistent quality and comply with local standards. A concrete slump in the range 75 mm to 110 mm will normally give best results.

The slab must be of good quality concrete with a water-cement ratio of between 0.45 and 0.55 and must be consistent while being poured. The compressive strength must be a minimum of 25 N/mm².

APPLICATION

IMPORTANT

Damaged finish due to excessive drying of the surface

Exposure to environmental conditions during application can cause cracking and colour inconsistencies.

1. Do not apply the Product in strong wind or draughts.
2. Keep the floor laying operation as clean and protected from the environment as possible.

IMPORTANT

Poor finish due to uneven application

Poor application practices can result in an inconsistent finish.

1. Ensure an even application of the Product and use correct timing and trowelling techniques.

Low relative humidity below 40 %

Note: Efflorescence can appear on the surface at low relative humidity.

High relative humidity above 80 %

Note: Bleeding, slower curing and hardening can oc-

cur, and extended finishing operations may be required at high relative humidity.

Prevailing conditions affecting application time

Note: Application time for dry-shake products is influenced by every variable which affects the placing of concrete, and can therefore vary substantially, depending on the prevailing conditions.

Variability of concrete causing colour variations

Note: Variations in concrete characteristics such as water content and cement quality may lead to slight colour variations.

Note: Colour variation during the drying period is normal for this system and is to be expected.

Note: Dry-shake hardeners give a finish to concrete with some colour variation across the floor due to the natural variability of the concrete on to which they are applied.

Repeated power trowelling

Note: Repeated power trowelling brings tension into the surface and can result in fine cracks appearing on the floor. This is typical for all power-trowelled concrete surfaces and does not have a negative impact on the floor performance.

MECHANICAL APPLICATION: AUTOMATIC SPREADER IN CONJUNCTION WITH A LASER SCREED

Preconditions

The concrete has been cast, compacted and levelled.

1. Start spreading the Product almost immediately after the concrete has been levelled, in one application only, to allow for the hydration of the dry shake.
2. Trim the edges where adjoining slabs are to be poured. Note Using the Product results in the slab surface becoming stiff more quickly than usual.
3. Perform the final finishing using walk-on or ride-on power trowels repeatedly in two perpendicular directions to achieve the final surface appearance.

MANUAL APPLICATION

Preconditions

The concrete has been cast, compacted and levelled.

1. Depending on the conditions, remove the surface bleed water or allow it to evaporate.
2. Determine whether the concrete is ready for the dry-shake application process. Note This process can start once the concrete can be stepped on without leaving a print deeper than 3–5 mm.
3. Trowel the surface of the concrete with power trowels. Note Compaction with the trowel can start as soon as the weight of the power trowels is supported by the concrete.
4. Evenly scatter two-thirds of the required material on to the compacted and levelled concrete. The Product is applied in two stages. The quantities applied in each stage depend on the desired overall consumption and layer thickness. Note Casting the Product further than 2 metres from point of casting reduces the consistency of the finish. Apply the Product without creating ripples in the concrete surface.

- Work the first layer of the Product into the slab using power trowels.
- Immediately scatter the remaining third of the required material.
- **IMPORTANT** Never add water to the surface where the dry shake has been applied. Work the second layer of the Product into the slab using power trowels.
- Trim the edges where adjoining slabs are to be poured. Note Using the Product results in the slab surface becoming stiff more quickly than usual.
- Perform the final finishing using walk-on or ride-on power trowels repeatedly in two perpendicular directions to achieve the final surface appearance.

CURING TREATMENT

1. Cure and seal the Product immediately after finishing.
2. Use the water-dispersed curing and sealing compound Sikafloor® ProSeal W or the solvent-based curing and sealing compound Sikafloor® ProSeal-22. Refer to the Product Data Sheet for details.

JOINTS

1. After finishing operations and completing saw cuts, clean off any residual saw lubricant or slurry immediately.
2. Fill joints with Sikaflex® PRO-3 or another appropriate Sikaflex® sealant in accordance with the floor design requirements.

CLEANING OF TOOLS

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

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 the 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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