

PRODUCT DATA SHEET

Sikafloor[®]-245 Level Deep Fill Ultra

Thick bed levelling and resurfacing compound

PRODUCT DESCRIPTION

Sikafloor[®]-245 Level Deep Fill Ultra is a 1-part, thick bed, cement-based smoothing and resurfacing compound for levelling out very uneven floors and screeds up to a depth of 50 mm in one coat. It is typically used for levelling floors prior to laying ceramic and thermoplastic tiles, lino, wood block flooring or carpet. When mixed as directed, the compound provides a free flowing/trowelable mix.

USES

- Levelling out very uneven floors prior to laying ceramic and thermoplastic tiles, lino, wood block flooring or carpet.
- For covering Sand/cement screeds, Quarry tiles and terrazzo.
- For covering existing, asphalt and tiling.
- Suitable for underfloor heating applications beneath heating cables/pipes or on top of heated screeds.
- Suitable for internal and external use.

PRODUCT INFORMATION

Chemical Base	Portland Cement
Packaging	25 kg sack
Shelf Life	9 months from the date of manufacture.
Storage Conditions	This product must be stored in unopened bags, clear of the ground in cool, dry conditions and protected from excessive draught (between +5 °C and +35 °C). The use of this product after the end of the declared storage period may increase the risk of an allergic reaction.
Appearance / Colour	Grey powder

CHARACTERISTICS / ADVANTAGES

- Deep filling up to 50 mm (60 mm filled) in one application.
- Extremely low shrinkage.
- Trafficable in 4 hours.
- Can be overlaid after only 4 hours.
- Pot life 40 mins.
- Internal and external use.

APPROVALS / STANDARDS

Tested to EN 13813 CT-C25-F6

TECHNICAL INFORMATION

Compressive Strength	25 N/mm ²
Flexural Strength	6 N/mm ²
Reaction to Fire	Class A1/A1fl

APPLICATION INFORMATION

Mixing Ratio	25 kg powder to 4.5 L clean water.
Consumption	25 kg will cover 3.1 m ² at 5 mm depth.
Layer Thickness	3 mm to 50 mm. 10 mm to 60 mm mixed with aggregates.
Substrate Temperature	Ensure floor temperature is >5 °C
Pot Life	40 minutes at 20 °C (substrate and air).
Setting time	Foot traffic 4 hours. Time for covering 50 mm in 4 hours approximately for ceramic coverings on concrete and cementitious screeds. Up to 1 day for 10 mm on other substrates.

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.

LIMITATIONS

Not suitable for anhydrite screeds.
Always check substrate conditions comply with manufacturers covering prior to laying.
Not suitable for use as a final wearing surface.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

SUBSTRATE

- Concrete/screed should be at least 28 days old.
- The surface must be dry, clean, structurally sound and possess an effective damp proof membrane. The surface should be free from residual adhesives, damp proof membranes, oil, grease, wax, loose flaky paint, dust, laitance etc. that could reduce adhesion.
- Switch off underfloor heating 24 hours before, and until 24 hours after, application.

PRIMING

NORMAL ABSORBENT CONCRETE/SCREED

- These substrates do not normally require priming. Damp down floor with clean water without leaving puddles and allow to surface dry. If water is absorbed immediately into substrate, treat as porous surface.

PORUS CONCRTE/SCREED

- Seal surface with SikaBond® PVA+ (1 part PVA to 4 parts clean water) ensuring surface is well coated, then allow to dry.
- Replace SikaBond® PVA+ with SikaBond® SBR+ when using externally.
- For highly porous substrates it may be necessary to apply more than one coat to prevent pinholes and cracking/debonding of Sikafloor®-245 Level Deep Fill Ultra.

NON PORUS/DENSE SUBSTRATES (Quarry/Ceramic tiles, terrazzo and smooth concrete etc)

- Mechanically roughen surfaces by grinding or scarifying to provide a mechanical key.
- Alternatively, apply a bonding coat of undiluted SikaBond® PVA+ and allow to become tacky before applying levelling compound.

- Replace SikaBond® PVA+ with SikaBond® SBR+ when using externally.

MIXING

Unfilled (3 mm to 50 mm thick)

Mix Sikafloor®-245 Level Deep Fill Ultra with clean water only.

- Slowly add 25 kg powder to 4.5 L water. Mix in a suitable clean container using a mechanical mixer with a spiral mixing paddle at slow speed until fully mixed and a smooth consistency achieved.
- If the product starts to stiffen or set, DO NOT try to remix or add extra water.

Filled (10 to 60 mm thick)

- Add 1 part of clean, dry aggregate to 1 part Sikafloor®-245 Level Deep Fill Ultra. The sand should be added after mixing powder with water. It is advisable to reduce the amount of mixing water before adding sand, then top up with water to achieve the correct consistency.
- NOTE: Flow characteristics will be affected by addition of the sand.
- If the product starts to stiffen or set, DO NOT try to remix or add extra water.

APPLICATION

- Sikafloor®-245 Level Deep Fill Ultra can be applied from a maximum thickness of 50 mm (60 mm when filled) down to 3 mm.
- Pour the mixed product onto the floor and spread evenly with a steel trowel to form a thin, tight scrape coat within working time.
- Immediately add further quantities of mixed product to give the desired thickness.
- Trowel marks should flow out of the product to leave a smooth finish (if not, trowel again when the surface is still damp but firm to the touch).
- If required use a spiked roller, within working time, on unfilled product to provide a more uniform surface appearance.

CLEANING OF TOOLS

Clean tools in water after use. Wash hands immediately after using this product.

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 exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommenda-

tions 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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