



BUILDING TRUST



PRODUCT DATA SHEET

Sikafloor®-475 Level

Cementitious floor topping for car parks and industrial floors (Formerly LANKO 783)

DESCRIPTION

Sikafloor®-475 Level is a two-part, pre-packed, high-performance self-smoothing cement based overlayment mortar with high abrasion, impact and skid resistance. It is ideal for car parks and industrial floor toppings and can be used as base for epoxy or polyurethane floors. Thickness 3 to 5 mm. Interior or exterior use.

USES

- Topping and levelling of undulated floors
- Protective layer for new concrete floors in high wearing areas
- Overlayment of trafficked areas
- Resurfacing of old and worn concrete floors
- Levelling prior to the application of epoxy or polyurethane flooring

Application areas:

- Warehouses and industrial floors
- Car parks, driveways, ramps, turn areas
- Bus bays
- Concrete roads
- Docks
- Concrete staircases
- Concrete roof gutters
- Walkways

CHARACTERISTICS / ADVANTAGES

- Application thickness 3–5 mm
- Superior workability
- Good adhesion to concrete
- Good abrasion resistance
- Good impact resistance
- Low shrinkage
- Low permeability
- Trafficable
- Suitable as overlayment
- Interior or exterior use

PRODUCT INFORMATION

Composition	Part A	Acrylic polymer
	Part B	Cementitious powder with special additives
Packaging	Part A+B	30 kg
	Part A	5 kg container
	Part B	25 kg bag
Shelf life	12 months from date of production	

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Storage conditions The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.

Appearance and colour	Part A+B mixed	Liquid / Grey
	Part A	Liquid / White
	Part B	Powder / Grey

TECHNICAL INFORMATION

Compressive strength	~30 N/mm ² (28 days, +30 °C)	(EN 13892-2)
Tensile strength in flexure	~8 N/mm ² (28 days, +30 °C)	(EN 13892-2)
Tensile adhesion strength	~1 N/mm ² (28 days, +30 °C)	(EN 13892-8)

SYSTEM INFORMATION

System structure	Layer	Product
	Primer	Sikafloor®-09 Primer
	Levelling mortar	Sikafloor®-475 Level

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 5 : 25 (by weight)	
Fresh mortar density	~2.20 kg/L (+30 °C)	(EN ISO 2811-1)

Consumption	Layer	Product	Consumption
	Primer	Sikafloor®-09 Primer	~0.200-0.250 kg/m ²
	Levelling mortar	Sikafloor®-475 Level	~2.2 kg/m ² per mm

These figures are theoretical and does not allow for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.

Layer thickness	Minimum	3 mm
	Maximum	5 mm

For higher layer thickness, apply multiple layers as specified in Application Information.

Ambient air temperature +10 °C min. / +35 °C max.

Relative air humidity 75 % max.

Dew point Beware of condensation.
The substrate and uncured floor must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the floor finish. Low temperatures and high humidity conditions increase the probability of blooming.

Substrate temperature +10 °C min. / +35 °C max.

Pot Life ~60 min. (100 g mass, +23 °C, 50 % r.h.)
Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity

Initial set time ~3 h (+30 °C) (EN 196-3)

Final set time ~7 h (+30 °C) (EN 196-3)

Waiting time to overcoating When overcoating with epoxy or polyurethane coatings, allow for 28 days curing to be completed

Note: The above values are measured at +23 °C and 50 % r.h. Times are approximate and will be affected by changing substrate and ambient conditions, particularly the 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.

FURTHER INFORMATION

- Sika Method Statement: Sikafloor®-475 Level
- Product Data Sheet of primer and subsequent products to be used

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

Select the most appropriate equipment required for the project:

Substrate preparation equipment

- Abrasive blasting cleaning equipment
- Planing machine
- Scarifying machine
- High pressure water blasting equipment
- Sanding equipment

For other types of preparation equipment, contact Sika Technical Services.

Mixing equipment

- Electric single or double paddle mixer (< 600 rpm) with helical disc-shaped or spiral helix paddle
- Scraper
- Clean mixing containers

For other types of mixing equipment, contact Sika Technical Services.

Application equipment

- Mixed material carrier
- Pin-leveller (Pin-rake)
- Surface blade
- Screed rake
- Notched trowel
- Smoothing trowels
- Spike roller

For types of pumping equipment, contact Sika Technical Services.

SUBSTRATE QUALITY

- Suitable substrates are concrete and cementitious screeds.
- The substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, polish, coatings, water-soluble and water-resistant adhesives, varnish, laitance, surface treatments and loose friable material.

SUBSTRATE PREPARATION

- Prepare substrates and remove separation and sinter layers mechanically by selecting and using abrasive blast cleaning, grinding or planing / scarifying equipment for the type of substrate.
- The final texture of the substrate must be open textured and gripping.
- Remove weak cementitious and levelling layers.
- Surface defects such as blow holes and voids must be fully exposed using the surface preparation equipment.
- 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.
- Products must be cured before applying Sikafloor®-475 Level.
- Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the product.
- To improve the adhesion and provide a pore free surface for subsequent coverings, use Sikafloor®-09 Primer.

MIXING

IMPORTANT

Do not add water in any circumstances.

1. Pour full quantity of Sikafloor®-475 Level Part A (liquid) into a clean mixing container.
2. Mix the liquid slowly while gradually adding the complete bag of Sikafloor®-475 Level Part B (powder).
3. Mix continuously for ~3 minutes to achieve a smooth, uniform mix.

For large quantity mixing, contact Sika Technical Services for suitable mixing equipment.

APPLICATION

Important: Do not apply on substrates with rising moisture. If rising moisture can occur, an effective damp proof membrane must be applied before applying Sikafloor®-475 Level.

Important: Edge and movement joints must be brought through to the finished surface and must be protected so the product will not flow into the joint.

Important: Use an isolating strip / tape to prevent product bonding onto vertical surfaces, i.e. pipes, ducts, conduits, walls, columns etc.

Important: To reduce the risk of cracking, protect freshly applied product from high ambient temperatures, direct sunlight and draughts.

Primer application

1. Thoroughly pre-wet the prepared substrate (2 hours recommended) before application. Keep the surface wet and do not allow to dry. Before application remove excess water, e.g. with a clean sponge. The surface must appear a dark matt appearance without shining and surface pores and cavities must not contain water.
2. Apply 1 coat of primer with a brush firmly coating the entire area.

Mortar application

1. Pour the mixed product onto the primed substrate.
2. Spread the product evenly using a smoothing trowel, surface blade, screed rake or pin-leveller (pin-rake) to the required thickness.
3. Allow product to smoothen over the substrate.
4. If required, spike roller immediately to remove any trowel marks or surface defects.
5. If a 2nd layer of Sikafloor®-475 Level is to be applied, prime the hardened 1st layer with Sikafloor®-09 Primer.
6. (Optional) If antiskid surface is required, broom the surface to desired texture soon after initial setting using screed board, spike roller or trowel.

CLEANING OF EQUIPMENT

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

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 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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