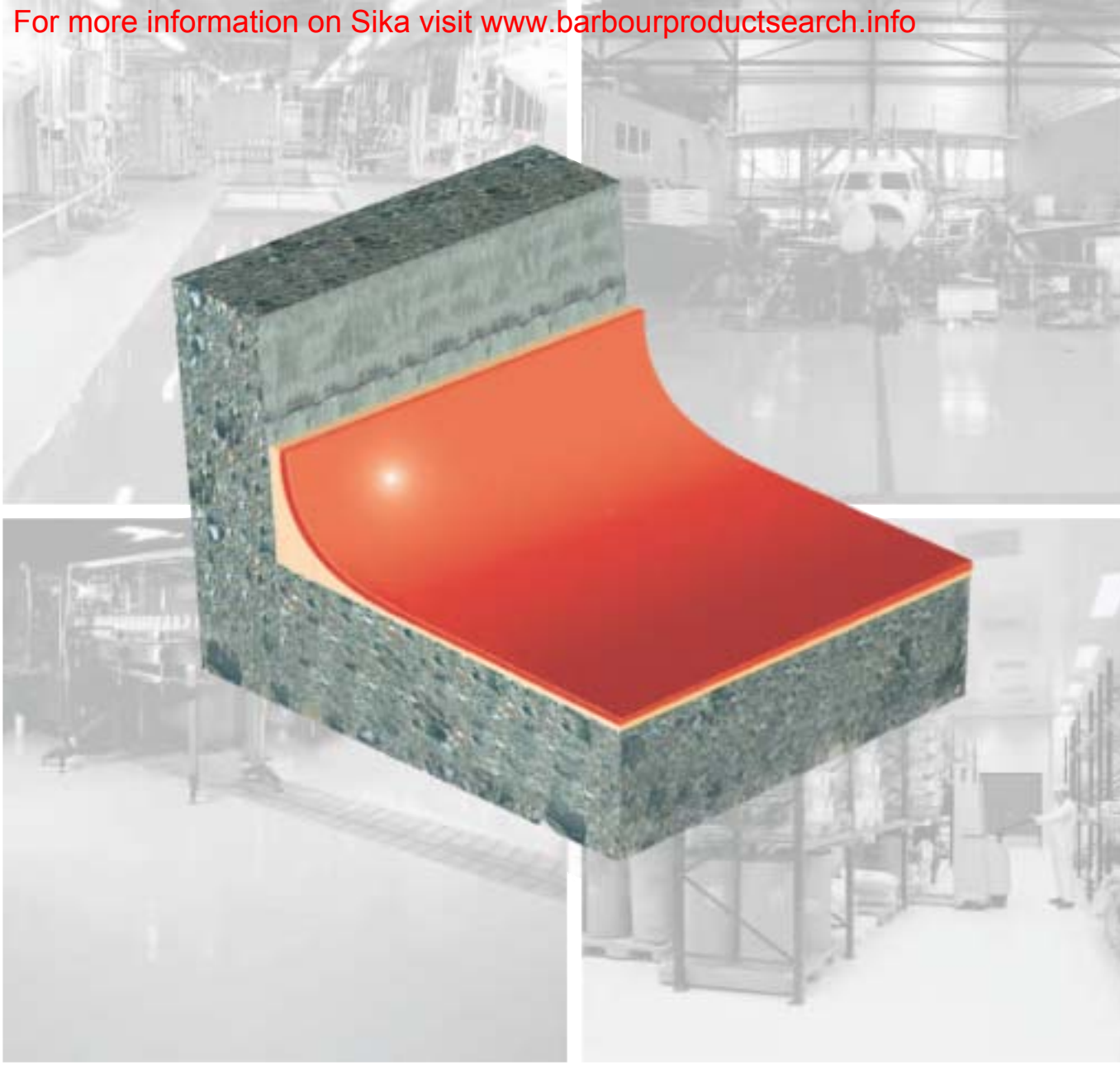
Construction



Sikafloor®-261

Multi-purpose Epoxy Flooring

- Good chemical and mechanical resistance
- Easy and fast application
- Good adhesion to cementitious substrates
- Solvent free
- Versatile

Sikafloor®-261 Multi-purpose Epoxy Flooring

Different working environments ask for different solutions. Normally that means different flooring products!

Slip Resistant Finish

Sikafloor®-261 Broadcast screed

Sikafloor®-261 Textured coating

Sikafloor®-81 EpoCem® Broadcast layer sealed with **Sikafloor®-261**

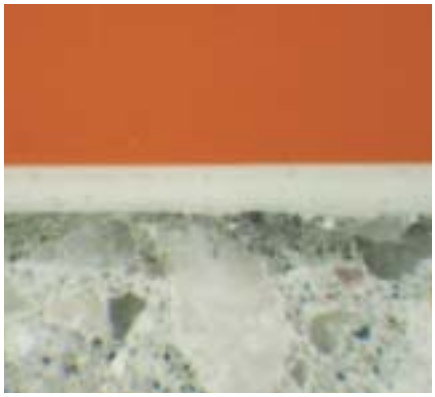
Sikafloor®-261 Mortar screed

With **Sikafloor®-261** you need only one universal binder system plus one primer, extender and quartz sand to fulfil up to 70% of all needs:

Smooth Finish

Sikafloor®-261 Self-smoothing screed

Sikafloor®-261 High build coating



Sikafloor®-261 Coving

Sikafloor®-261 Multi-purpose Epoxy Flooring

Broadcast Floor for Wet Process Areas

For wet process areas and areas with presence of grease and oils in: beverage, food and dairy factories, chemical and pharmaceutical industries.

Requirements

Medium standard

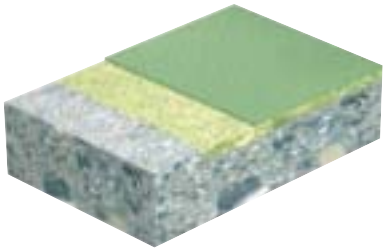
- Medium to high wear resistance
- Good chemical resistance
- Medium thermal resistance
- Safety
- Aesthetics and surface texture
- Comfort and care

High standard

- High wear resistance
- Good chemical resistance
- Medium thermal resistance
- Safety
- Aesthetics and surface texture
- Comfort and care

Layer thickness: 1 – 2 mm

Layer thickness: 2 – 4 mm



Sika System

Sikafloor®-156, a solvent free epoxy primer for self-smoothing screeds, broadcast with quartz sand, sealed with **Sikafloor®-261**, a solvent free coloured epoxy resin binder

Sika System

Sikafloor®-261, a solvent free, coloured epoxy binder for self-smoothing screeds as a broadcast layer, sealed with **Sikafloor®-261**

Self-smoothing Floor for dry Process Areas

Industrial floor for areas with medium to high wear resistance in: industries like pharmaceutical, chemical, mechanical, textile as well as warehouses, laboratories, exhibition rooms.

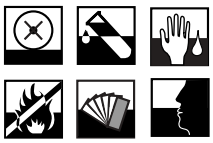
Requirements

Economy standard

- Medium wear resistance
- Medium chemical resistance
- Aesthetics
- Easy cleaning and repair

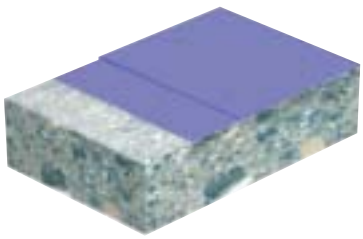
Medium to high standard

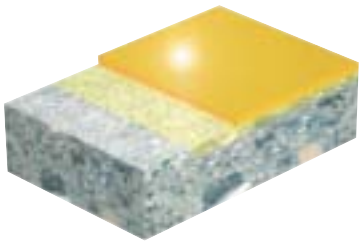
- High wear resistance
- Good chemical resistance
- High Safety
- Aesthetics and surface texture
- Comfort and care



Layer thickness: 0.6 – 0.8 mm

Layer thickness: 1.5 – 3 mm





Sika System

2 x **Sikafloor®-261**, a solvent free, coloured epoxy binder for high build coatings

Sika System

Primer: **Sikafloor®-156**
1 x **Sikafloor®-261**, a solvent free, coloured epoxy binder for self-smoothing screeds

Sikafloor®-261 Multi-purpose Epoxy Flooring

High Resistance Mortar Screeds for Work Shops, Loading Bays and Ramps in Heavy Industry

For hand and mechanical trowelling

Requirements

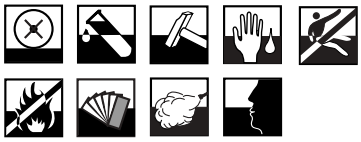
High standard - smooth finish

- High wear resistance
- Good chemical resistance
- Aesthetics
- Comfort and care
- Decontaminable according to DIN 25415, BS 5295

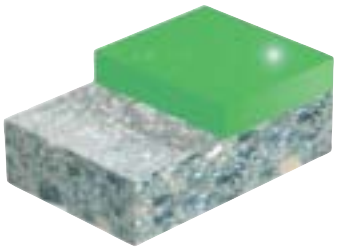
High standard - textured finish

- High wear resistance
- Good chemical resistance
- Aesthetics
- Comfort and care
- Safety
- Decontaminable according to DIN 25415, BS 5295

Layer thickness: 5 – 8 mm



Layer thickness: 5 – 8 mm



Sika System

Primer: **Sikafloor®-156**
1 x **Sikafloor®-261**, extended with quartz sand AB: C (1: 7–10)
Sealed with **Sikafloor®-261** plus **Sika Extender-T** < 2%

Sika System

Primer: **Sikafloor®-156**
1 x **Sikafloor®-261**, extended with quartz sand AB: C (1: 7–10)
Sealed with **Sikafloor®-261** plus **Sika Extender-T** > 2%
for textured finishes

High Resistance Screeds for Cold Storage with Service Temperature ≥0° C

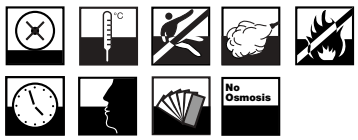
Requirements

Medium standard

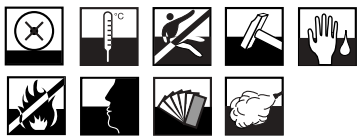
- Medium wear resistance
- Thermal resistance
- Safety
- Easy cleaning and repair

High standard

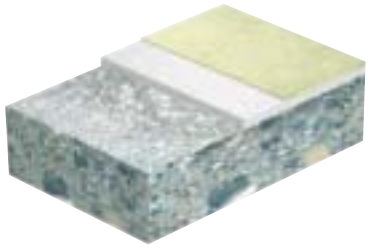
- High wear resistance
- Thermal resistance
- Safety
- High care standards



Total layer thickness: 2 – 4 mm



Total layer thickness: 2 – 4 mm



Sika System

Primer:
Sikafloor® EpoCem® Module
Broadcast layer:
Sikafloor®-81 EpoCem®
Sealed with **Sikafloor®-261**

Sika System

Sikafloor®-261, a solvent free, coloured epoxy binder for self-smoothing screeds as a broadcast layer sealed with **Sikafloor®-261**

Sikafloor®-261 Multi-purpose Epoxy Flooring

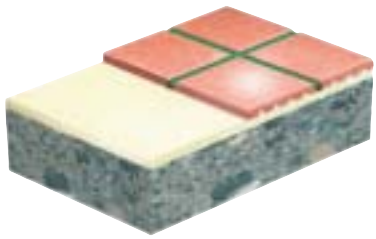
Anti-Acid Joints

Binder system for anti-acid joints in food industry (joints without movement)

Requirements

Anti-acid joints

- Good chemical resistance
- Medium wear resistance
- Safety
- Aesthetics



Sika System

Sikafloor®-261,
coloured epoxy binder mixed with
Sikadur®-506 (AB) : C=1: 2.3
joint sections from 5 x 5mm to 40 x 40mm

Car Parks: Underground Parking Structures

Economic protective and decorative decking systems

Requirements

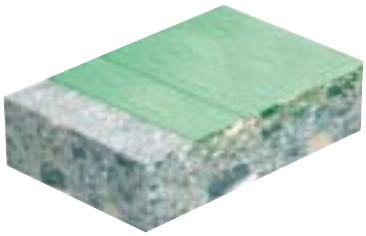
Economy standard

- Medium wear resistance
- No concrete dusting
- Safety
- Aesthetics

Medium to high standard

- High wear resistance
- Good chemical resistance
- Thermal resistance
- Safety
- Aesthetics and surface texture
- Comfort and care

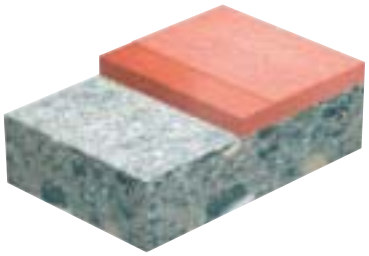
Total layer thickness: 0.6 – 0.8 mm



Sika System

2 x **Sikafloor®-261**, a solvent free coloured epoxy binder for textured coatings

Layer thickness: 2 – 4 mm



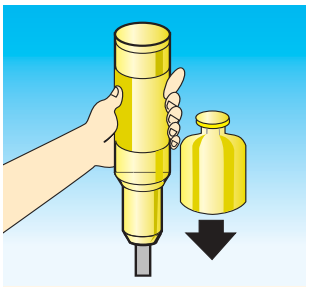
Sika System

Sikafloor®-261, a solvent free, coloured epoxy binder for self-smoothing screeds as a broadcast layer sealed with **Sikafloor®-261**

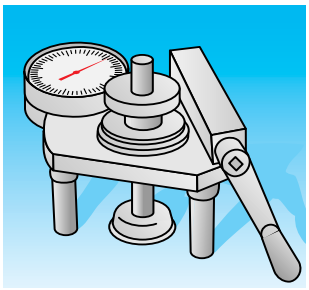
Sikafloor®-261 Application

Substrate, Inspection and Preparation

The substrate is the basis of a floor, whether it is new or old. Detailed inspection and analysis is essential to determine the correct substrate preparation for a successful flooring system.
A durable bond must be achieved between the coating and the substrate. This requires a dry, sound and clean surface without residues or other contaminants, prior to application of the flooring system.

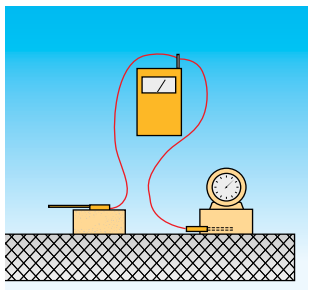


Measuring the compressive strength
The compressive strength of industrial flooring should not be less than 25 N/mm2 (3500 psi). To meet defined loads, a higher strength may be required. It is advisable to take a number of measurements with a rebound hammer or better still by taking cores and physically testing their compressive strength.

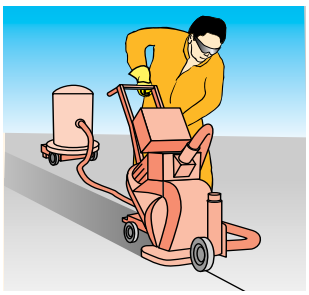


Determining the cohesive strength
Concrete substrates generally have laitance with low strength in the top few mm. Stresses from reaction shrinkage, thermal changes or load cycles may lead to reduced cohesive strength. Minimum rate: ≥ 1.5 N/mm2, > 210 psi).

Substrate moisture content
It is extremely important to measure the substrate moisture content, because cement bound substrates should normally only be coated at a moisture level of 4% by weight or less.
The best method for identifying rising moisture is the “Rubber Mat Test” (at least 1 m x 1 m of polyethylene sheet, taped to the concrete surface). This should be left in position for at least 24 hours, prior to the removal. Any condensed vapour transmissions are therefore detected and visible.
Substrate moisture > 4% or rising moisture (condensed vapour) indicate the need for additional drying time or the use of **Sikafloor® EpoCem® Technology**.



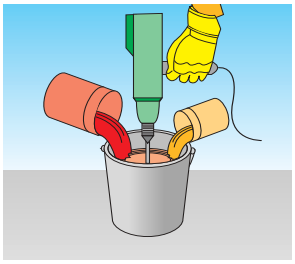
Ambient climate
If climatic factors are ignored, serious flooring defects such as poor adhesion, water marks, void formation, irregular surfaces and inadequate curing may occur. The following data therefore must be checked several times a day during application.
- ▲ Ambient temperature (air temperature)
- ▲ Substrate temperature
- ▲ Dew point



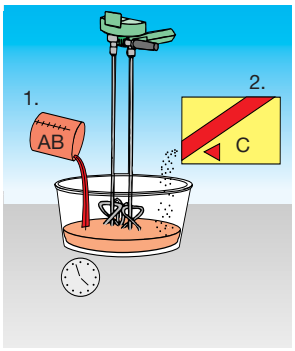
Preparation and cleaning
Contamination from grease, oils or organic/inorganic acids and/or surface laitance will compromise the adhesion characteristics of any installed system, if not fully removed. Surfaces must therefore always be mechanically prepared down to the sound areas and checked by determining the cohesive strength.

Mixing

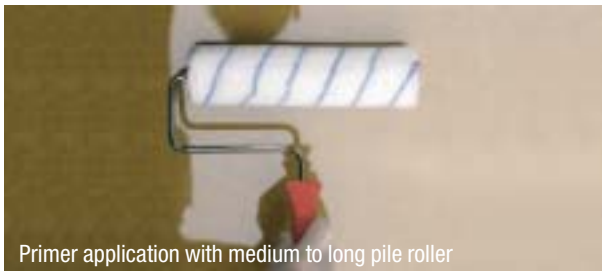
Each Sikafloor® product needs to be thoroughly mixed prior to application. The mixer used should always be electric, low speed.



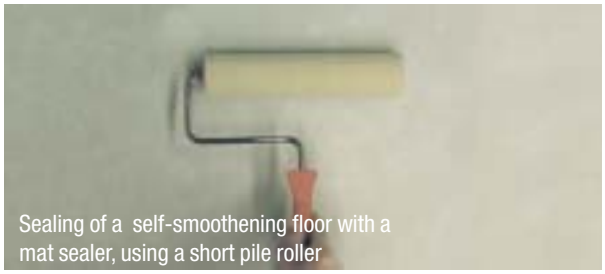
Mixing, propeller/paddle
This tool is only recommended for unfilled binders. Premix Comp. A first.Then add Comp. B and mix for a minimum of 3 minutes until the mix is homogeneous.



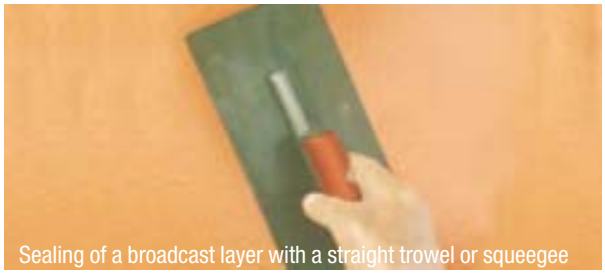
Basket mixer
This is the tool for all filled binder systems as well as for mortar mixes. First of all, put the premixed A+B Component or liquid binder in the mixing pail, and then add Powder Comp. C while stirring. Mix for a minimum of 3 minutes, until the mix is homogeneous.


Primer application with medium to long pile roller


Application with a textured roller


Sealing of a self-smoothening floor with a mat sealer, using a short pile roller


Application of a self-smoothening screed with a toothed trowel


Sealing of a broadcast layer with a straight trowel or squeegee


Spiked rolling immediately removes any entrapped air

Performance Requirements

Sikafloor®-261 Epoxy Resin Screed

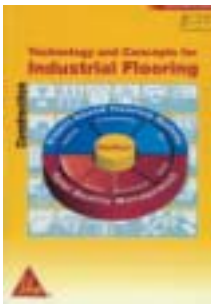
Performance characteristics

Abrasion resistance; Taber (DIN 53109/ASTM D4060)	60 mg
Compressive strength 14 d/23°C (DIN EN 196-1)	74 N/mm2
Hardness 14 d/23°C (DIN 53505/ASTM D2240)	Shore D 77
Impact resistance EN 12191 14 d/23°C	220 cm
Flex. modulus of elasticity (DIN 1048-5)	3 kN/mm2
Coeff. of expansion (DIN 52450)	4 x 10^{-5} per °C

Performance characteristics

Permeability to liquid water	No
Heat resistance continuous exposure	50 °C
Heat resistance short term exposure	120 °C
Ready for foot traffic after (20°C)	24 h
Ready for mechanical and chemical exposure (20°C)	7 d

Additional Technical Information Brochures available from Sika®



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WP.12.03.5k