BUILDING TRUST

PRODUCT DATA SHEET
Sikafloor® -156

Epoxy-resin binder for priming, levelling mortar and for screeds

PRODUCT DESCRIPTION

Sikafloor® -156 is a colourless, 2-component low viscosity epoxy resin.

USES

For priming and levelling substrates underneath all Sikafloor® epoxy resins respectively polyurethanes. By adding different types of aggregates, it can act as epoxy screed, repair mortar or anti-skid screed.

CHARACTERISTICS / ADVANTAGES

- low viscosity
- good penetration for normal to strong absorbent surfaces
- mechanically highly resistant
- easy dosage
- easy application
- short waiting times
- for indoor and outdoor areas

PRODUCT DATA

FORM

COLOURS

Yellowish-transparent

PACKAGING

20 kg per pail

STORAGE

STORAGE CONDITIONS / SHELF-LIFE

24 months from date of production if stored properly in undamaged and unopened original sealed packaging in cool dry conditions. Protect from direct sunlight and frost.

TECHNICAL DATA

DENSITY

(According to DIN 53 217)

Ca. 1.1 kg/ltr

VOC DATA

VOC content (ready to use) not exceeding 350 gm/litre [Type of regulated paint under the Air Pollution Control (volatile organic compounds) Regulation of Hong Kong: (specialty primers)].

MECHANICAL / PHYSICAL PROPERTIES

SHORE D HARDNESS

(According to DIN 53 505)

Ca. 83 (7 days/23°C)

COMPRESSIVE STRENGTH

(According to EN 196 Part 1)

Binder : ~70 N/mm^2 (7 days/23°C)

Mortar : ~95 N/mm^2 (7 days/23°C)

FLEXURAL STRENGTH

(According to EN 196 Part 1)

Binder : ~75 N/mm^2 (7 days/23°C)

Mortar : ~30 N/mm^2 (7 days/23°C)

SYSTEM INFORMATION

APPLICATION DETAILS

CONSUMPTION / COVERAGE

Primer

~0.3 - 0.5 kg/m² per application, depending on absorbency of substrate.

In case of a 2nd application or when exceeding the max. waiting time, the 1st application must be blinded loosely with quartz sand 0.4 - 0.7 mm; consumption max. 1.0 kg/m². Remove excessive sand prior to the next application by broom or vacuum cleaner.

Surfaces directly exposed to weathering must be primed in 2 applications, whereby the first application must be brushed in intensively. Where the waiting time of 48 hours may be exceeded after the 2nd application, broadcast 2nd primer coat with max. 0.8 kg/m² quartz sand 0.4 - 0.7 mm. Application at constant or falling temperatures.

Please note: Primer coats should not be broadcasted in excess as a rule!

As a priming coat for SikaBond® parquet adhesives, Sikafloor® -156 must not be blinded.

Levelling mortar

Composition at +15°C to +20°C:

At +10° C surface a/o ambient temperature reduce respectively at +30°C increase proportion of sand by approx. 30%.

Mortar Type:

Leveling mortar fine

Pattern depth	0.5 – 1mm
Mixing ratio pbw	1 : 0.5
Sikafloor® 156	10 kg
Quartz 0.1 – 0.3 (F34)	5 kg
Extender T	0.15 kg
Consumption	1.4 kg/m^2/mm

Leveling mortar

Pattern depth	0.5 – 2mm
Mixing ratio pbw	1 : 1
Sikafloor® 156	10 kg
Quartz 0.1 – 0.3 (F34)	10 kg
Extender T	0.15 kg
Consumption	1.6 kg/m^2/mm

Epoxy screed / repair mortar

Production of easy applicable epoxy screed/ repair mortar with Sikafloor® -156 and kiln dried quartz sand.

Mixing proportion:

1 pbw Sikafloor® -156 binder

10 pbw quartz sand

In practice the following sand mixtures proved to be suitable (granulometry for layer thicknesses of 15 - 20 mm):

25 pbw quartz sand 0.1 - 0.5 mm

25 pbw quartz sand 0.4 - 0.7 mm

25 pbw quartz sand 0.7 - 1.2 mm

25 pbw quartz sand 2 - 4 mm.

Note: The largest grain size should not exceed 1/3 of the finished layer thickness.

Depending on grain shape and application temperature, the aggregates must be matched to each other by practical trials. Factory made sand mixtures tend to segregate during transport, therefore use whole bags only.

Anti-skid screed

Mix Sikafloor® -156 with anti-skid aggregates. Mixing proportion depends on aggregate size and type. Trials are recommended to define the most suitable mix design.

SURFACE QUALITY

The substrate must be of sufficient strength (min. compressive strength 25

N/mm²). The surface must be even, fine gripping, dense, dry (moisture content < 4% for cementitious substrates, < 0.3% for anhydrite screeds) and free from loose and friable particles. Minimum pull-off strength 1.5 N/mm².

SURFACE PREPARATION

Insufficient layers and contaminations must be removed mechanically, e.g. by means of sweep blasting or scabbling. Dedusting is absolutely necessary.

AMBIENT AND SUBSTRATE TEMPERATURE

min. +10°C (but at least +3°C above dew point)

max. +30°C relative air humidity max. 80%.

APPLICATION INSTRUCTIONS

MIXING RATIO

Part A : B = 3 : 1 (by weight)

MIXING

Primer/epoxy binder

Prior to application, mix component A + B of Sikafloor® -156 intensively in the correct mixing proportion by means of an electrically stirrer (approx.300-400 rpm). Mix at least 3 minutes until a homogeneous mixture is achieved. Fill the mixed epoxy binder into a clean container and mix again shortly.

Epoxy screed/repair mortar/anti-skid screed

Add the pre-mixed epoxy binder slowly into a forced action mixer with rotating pan or paddle containing the aggregate. Mix until a uniform wetted, flowable mixture is achieved.

APPLICATION METHOD / TOOLS

Primer

In order to achieve a uniform wetting of the substrate, we strongly recommend to brush the mixed Sikafloor® -156 firmly into the prepared substrate. In case of a 2nd application, use distemper brush or roller.

Tack coat

Apply Sikafloor® -156 with 0.5 - 1% by weight Extender T onto the prepared substrate by roller. On top of this tack coat, spread the screed mixture “wet on wet”, level with levelling board and compact with a power float.

Scraping mortar

Apply Sikafloor® -156 with 0.5 - 1.5% by weight of Extender T in order to avoid patchy appearance of top coat due to variation of absorbent substrate.

Levelling mortar

Rough surface need to be leveled first. Apply the leveling mortar by

squeegee/towel to the required thickness(0.5 - 2mm).

Epoxy screed/repair mortar/anti-skid screed

Apply the screed/mortar evenly on the still 'tacky' primer, using levelling battens or screed rails. After a short waiting time, compact the screed/mortar with a trowel. For smooth finish, pleases smoothen the screed/mortar surface with power float.

APPLICATION TIME

(in 10kg unit)

+10°C	60 min.
+20°C	30 min.
+30°C	15 min.

WAITING TIME / OVERCOATING

Waiting times when overcoating with solvent-free products:

+10°C	min. 24 hr.	max. 4 days
+20°C	min. 8 hr	max. 2 days
+30°C	min. approx. 5 hr	max. 1 day

Waiting times when overcoating with solvent containing products:

+10°C	min. 36 hr.	max. 6 days
+20°C	min. 24 hr	max. 4 days
+30°C	min. 12 hr	max. 2 day

CURING

	Ready for foot traffic	Light mechanical wear after	Fully serviceable after
+10°C	24 hr	5 days	10 days
+20°C	12 hr	3 days	7 days
+30°C	6 hr	2 days	5 days

CLEANING OF TOOLS

Thinner C

OVERWORKABILITY

Prior to overcoating Sikafloor 156 must have cured tack-free

NOTES ON APPLICATION / LIMITATIONS	■ Do not thin with solvents ■ In a liquid the product should not be washed into drains and waterways. ■ Do not apply to areas when rain is imminent.
VALUE BASE	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.
LOCAL RESTRICTIONS	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.
HEALTH AND SAFETY INFORMATION	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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FOR MORE PRODUCT NAME® INFORMATION:

ISO 9001:2008
Certificate No.: CC 446

ISO 14001:2004
Certificate No.: CC 2042

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