



Sikafloor® 381

Coloured Chemically Resistant Epoxy Resin Flooring System

Technical Data Sheet

DESCRIPTION

Sikafloor 381 is a two component, solvent free, coloured, highly chemically resistant epoxy resin flooring system, filled with sand to produce a self smoothing screed.

USES

- * Chemical process areas.
- * Decontaminable areas.
- * Manufacturing areas.
- * Production areas.
- * Chemical storage areas.
- * Breweries.
- * Laboratories.
- * Food processing areas.
- * Bund linings.
- * Power plants.

ADVANTAGES

- * Excellent chemical resistance.
- * High mechanical resistance.
- * Impervious.
- * Fast curing.
- * Solvent free.
- * Safe to use.
- * High durability.
- * Jointless.
- * Easy to maintain.

FLOOR COATING SYSTEM

Primer: 1 - 2 x **Sikafloor 156/157.**

Top coat: 1 x **Sikafloor 381**

Material consumption: Approx 1.8 kg/m² per mm (filled)

Technical Data (typical)

Colour: Refer to colour chart and current price list for availability and minimum order quantities.

Density (SG): Approx 1.6 kg/litre

Volume solids: Approx 100%

Application temperatures & humidity conditions: +10°C min, +30°C max (Substrate and ambient)
RH 85% max

Substrate M.C. & RH: ≤4% by Wt or ≤75% RH

Application thickness: 1.8 mm minimum
2.8 mm maximum

MECHANICAL PROPERTIES:

Compressive strength: >80N/mm²

Tensile strength: >45 N/mm²

Elongation at break: 2.5%

Abrasion resistance: 60 mg (Taber)

Shore D hardness: 70

Heat resistance: Continuous exposure 50°C
Short term exposure 120°C

CHEMICAL RESISTANCE: Refer to chart (Consult Sika Ltd for additional information)

Additional application information:

	+10°C	+20°C	+30°C
Pot life:	60 mins	40 mins	20 mins

Waiting time between coats:

	+10°C	+20°C	+30°C
min	24 hrs	12 hrs	6 hrs
max	48 hrs	24 hrs	12 hrs

Final drying times:

	+10°C	+20°C	+30°C
Foot traffic:	2 days	1 day	12 hrs
Lightly serviceable:	3 days	2 days	1 day
Fully serviceable:	7 days	7 days	5 days

All above values are approximate.

SURFACE PREPARATION

The cementitious substrate should be sound and of sufficient compressive strength. (Min 25 N/ mm²) . Minimum pull off strength 1.5 N/mm².

The surfaces must be dry and free of all contaminants eg oils, grease, surface treatments and coatings etc. The substrate must be prepared mechanically to achieve an open textured fine gripping surface, free of cement laitance. Weak concrete should be removed and surface defects such as blowholes and voids must be fully exposed.

All dust, loose and friable material must be completely removed from all surfaces before application of the coating preferably by brush and vacuum.

Repairs to cementitious substrate and filling of blowholes levelling of irregularities etc should be carried out using an appropriate product from the **SikaDur**[®], **Sikafloor**[®] or **SikaGard**[®] range of materials.

MIXING

Prior to mixing, stir component A (resin), add all of component B (Hardener) and mix both components thoroughly with a low speed electric stirrer (300 - 400 rpm) for a minimum of 3 minutes until a uniform mix has been achieved. Add kiln dried quartz sand (0.1 - 0.3 mm F34 1: 0.3 by wt) gradually while mixing then thoroughly mix for a further 2 minutes. Leave material to stand in container until the majority of air bubbles have dispersed.

APPLICATION

Prior to application, confirm substrate moisture content and RH. If >4% by wt or >75% RH. **Sikafloor**[®] **EpoCem**[®] may be applied as a D.P.M. system

Pour **Sikafloor 381** onto tack free primed surface and spread evenly with twin blade trowel to the required thickness. Roll immediately in two directions with spiked roller.

IMPORTANT CONSIDERATIONS

- * Construction joints require pre treatment with a stripe coat. Contact **Sika Ltd** for further details.
- * Do not apply **Sikafloor 381** on substrates in which significant vapour pressure may occur.
- * **Thinner C** is flammable. NO NAKED FLAMES.
- * Always ensure good ventilation when using **Sikafloor 381** in a confined space.
- * Freshly applied **Sikafloor 381** should be protected from damp, condensation and water for at least 24 hours.
- * For inclined and vertical surface add 2% - 4% by wt of **Extender T**.
- * Application may vary depending on the type of sand used.
- * Do not use sand as filler for bund wall linings.

CLEANING EQUIPMENT

Use **Thinner C**. Hardened material may have to be mechanically removed.

PACKAGING

Refer to latest price list

CONSUMPTION

Approximately 1.7 kg/m²/mm filled (These figures do not allow for surface porosity, profile or wastage). Maximum yield per pack - refer to latest price list.

STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse conditions (+5°C - +25°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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