



Sikafloor[®] 280

Epoxy Resin Flooring Mortar

Technical Data Sheet

DESCRIPTION

Sikafloor 280 is a three component solvent free epoxy resin flooring mortar, particularly suited to detailing work.

USES

- * Repairs.
- * Coving.
- * Screeds.
- * Joint arrises.
- * Rendering.

ADVANTAGES

- * High mechanical resistance.
- * Solvent free.
- * High abrasion resistance.
- * Good chemical resistance.
- * Extremely easy to apply, excellent workability.
- * Solvent free.
- * Low odour.
- * Durable.
- * Easily maintained.
- * Overcoatable with all **Sikafloor** materials.

FLOOR COATING SYSTEM:

Primer: 1 - 2 x **Sikafloor 156/157**.
(as a tack coat)

Mortar, Screed, Coving or Render: **Sikafloor 280**

Material consumption: Approx 2.2 kg/m² per mm.

Technical Data (typical)

Colour: Grey (others to order - minimum quantity applies)

Density (SG): Approx 2.2 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: 4.0 mm minimum
10 mm maximum

MECHANICAL PROPERTIES:

Compressive strength: >80 N/mm²

Abrasion resistance (Taber): 10 mg

Heat resistance: Wet + 80°C
Dry +120°C

CHEMICAL RESISTANCE:

(Consult Sika Ltd for additional information). Acids, alkalis, disinfectants, oils, fats, fuels, solvents, not resistant to phenolic materials.

Additional application information:

	+10°C	+20°C	+30°C
Pot life:	50 mins	40 mins	15 mins

Final drying times:

Foot traffic:	24 hrs	18 hrs	12 hrs
Lightly serviceable:	3 days	3 days	2 days
Fully serviceable:	10 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

Empty Component C (aggregate) into forced action mixer. 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.

Pour the mixed resin components onto aggregate in the mixer until a uniform moist mix is obtained.

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

Apply **Sikafloor 280** to the primed, tacky substrate and compact to the appropriate thickness then trowel to a smooth finish.

For thicker sections bulking of the product is achieved using clean, dry pea gravel (3-6 mm size) to create an 'epoxy concrete' typically used on sections 15-70 mm thick. Typically bulk with addition of 30% p.b.w pea gravel.

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

SIKA LIMITED

Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ

Tel: 01707 394444 Email: sika@uk.sika.com

Fax: 01707 329129 www.sika.com

IMPORTANT CONSIDERATIONS

- * Do not apply **Sikafloor 280** on substrates in which significant vapour pressure may occur.
- * **Thinner C** is flammable. NO NAKED FLAMES.
- * Always ensure good ventilation when using **Sikafloor 280** in a confined space.
- * On vertical surfaces use **Sikafloor 156/157** or **SikaDur 32** as a tack coat.
- * Freshly applied **Sikafloor 280** should be protected from damp, condensation and water for at least 24 hours.
- * For continuous exposure to liquids seal coating with a **Sikafloor** coating is recommended.
- * For improved cleanability, sealing is recommended with a suitable **Sikafloor** coating.

CLEANING EQUIPMENT

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

PACKAGING

Refer to latest price list

CONSUMPTION

Approximately 2.2 kg/m²/mm. (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).

