



Sikafloor® 91

Coloured High Strength Epoxy Resin Screed

Technical Data Sheet

DESCRIPTION

Sikafloor 91 is a three component solvent free coloured high strength heavy duty epoxy resin floor screed which is also suitable as a patching and levelling compound.

USES

- * Warehouses.
- * Machine shops.
- * Workshops.
- * Chemical plants.
- * Water treatment plants.
- * Storage areas.
- * Plant rooms.
- * Breweries.
- * Pharmaceutical plants.
- * Steel works.

ADVANTAGES

- * High mechanical resistance.
- * High resistance to abrasion.
- * Good chemical resistance.
- * Fast curing.
- * Easy to apply.
- * Solvent free.
- * Low odour.
- * Durable.
- * Easily maintained.
- * Excellent application properties.

FLOOR COATING SYSTEM:

- Primer:** 1 - 2 x **Sikafloor 156/157.**
- Base coat:** 1 x **Sikafloor 91.**
- Seal coat:** Any suitable **Sikafloor** coating.
- Material consumption:** Approx 2.2 kg/m² per mm.

Technical Data (typical)

| | | | |
|--|---|---------|---------|
| Colour: | Refer to colour chart and current price list for availability and minimum order quantities. | | |
| 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: | 3.0 mm minimum 40 mm maximum | | |
| MECHANICAL PROPERTIES: | | | |
| Compressive strength: | >80 N/mm ² | | |
| Tensile strength: | >15 N/mm ² | | |
| CHEMICAL RESISTANCE: | Refer to chart (Consult Sika Ltd for additional information). | | |
| Additional application information: | +10°C | +20°C | +30°C |
| Pot life: | 50 mins | 40 mins | 15 mins |
| Waiting time between coats: | Tack free and ready for traffic | | |
| Final drying times: | | | |
| Foot traffic: | 24 hrs | 12 hrs | 8 hrs |
| Lightly serviceable: | 3 days | 2 days | 1 day |
| 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 the 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 91** wet on wet to tacky **Sikafloor 156/157** and rake to a uniform thickness. Compact material with a wooden float and close surface with a steel trowel.

IMPORTANT CONSIDERATIONS

- ✳ Do not apply **Sikafloor 91** on substrates in which significant vapour pressure may occur.
- ✳ **Thinner C** is flammable. NO NAKED FLAMES.
- ✳ Always ensure good ventilation when using **Sikafloor 91** in a confined space.
- ✳ Freshly applied **Sikafloor 91** should be protected from damp, condensation and water for at least 24 hours.
- ✳ Keep steel trowel clean by regular wiping with a cloth wetted with **Thinner C**.
- ✳ Do not over trowel **Sikafloor 91**.
- ✳ Normally **Sikafloor 91** is sealed to improve cleaning and chemical resistance. Use the appropriate **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 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 - +30°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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