



# Sikafloor<sup>®</sup> 31 PurCem

## Solvent Free Polyurethane Coating

### Technical Data Sheet

#### DESCRIPTION

**Sikafloor 31 PurCem** is a three component, solvent free coloured, matt finish, polyurethane coating with excellent chemical resistance and very good resistance to abrasion and mechanical damage.

#### USES

- \* As a seal coat to **Sikafloor 29 PurCem**.
- \* Dairies and food plants.
- \* Pharmaceutical plants.
- \* Containment areas.
- \* Aircraft hangars.
- \* Chemical process areas.
- \* As a chemically resistant concrete coating.

#### ADVANTAGES

- \* Seals **Sikafloor 29 PurCem** coving mortar.
- \* Excellent chemical resistance.
- \* High abrasion resistance.
- \* Moisture tolerance.
- \* Matt finish.
- \* Easy to apply.
- \* Quick curing.

#### FLOOR COATING SYSTEM:

**Primer:** No separate primer required except on excessively porous substrates. Use **Sikafloor 155W/156/157**. Ensure primer has cured to a hard film before overcoating.

**Coating:** 1 - 2 x **Sikafloor 31 PurCem**

**Material consumption:** Approx 0.1 - 0.2 kg/m<sup>2</sup> per coat.

#### Technical Data (typical)

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

**Density (SG):** 1.44 kg/litre

**Volume solids:** 100%

**Application temperatures:** +5°C min, +30°C max (Substrate and ambient)

**Substrate M.C. & RH** ≤10% by Wt

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

**Additional application information:** @ +20°C

**Pot life:** 15 mins

#### Waiting time between coats:

min 16 hours  
max 2 days

#### Final drying times:

Foot traffic: 24 hours  
Lightly serviceable: 2 days  
Fully serviceable: 5 days

**Note:** All above values are approximate.

## SURFACE PREPARATION

The cementitious substrate should be sound and of sufficient compressive strength. (Min 25 N/ mm<sup>2</sup>) . Minimum pull off strength 1.5 N/mm<sup>2</sup>.

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**<sup>®</sup>, **Sikafloor**<sup>®</sup> or **SikaGard**<sup>®</sup> range of materials.

## MIXING

Prior to mixing, stir component A (resin), add all of component B (Hardener) and mix both liquid components thoroughly with a low speed electric stirrer (300 - 400 rpm) for a minimum of 1 minute until a uniform mix has been achieved. Add component C (aggregate) and mix for a further 2 minutes minimum until a uniform lump free mix is obtained.

## APPLICATION

Prior to application, confirm substrate moisture content and RH. Apply using a short or medium nap roller ensuring that the coating fully wets the concrete surface. If applying onto **Sikafloor 156/157** ensure the correct overcoating times and substrate moisture contents are observed.

## IMPORTANT CONSIDERATIONS

- \* Do not apply **Sikafloor 31 PurCem** on substrates in which significant vapour pressure may occur.
- \* **Thinner C** is flammable. NO NAKED FLAMES.
- \* Always ensure good ventilation when using **Sikafloor 31 PurCem** in a confined space.
- \* Quartz sand can be sprinkled on to **Sikafloor 31 PurCem** then sealed to form a slip resistant surface.
- \* Freshly applied **Sikafloor 31 PurCem** should be protected from damp, condensation and water for at least 24 hours.
- \* Avoid puddles on surface.

## CLEANING EQUIPMENT

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

## PACKAGING

Refer to latest price list

## CONSUMPTION

Approximately 0.1 - 0.2 kg/m<sup>2</sup>/per coat. (These figures do not allow for surface porosity, profile or wastage).

## STORAGE AND SHELF LIFE

Minimum 6 months in sealed containers stored in dry warehouse conditions (+10°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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