



# Sikafloor® 29 PurCem

High Strength Polyurethane Render and Detailing Mortar

## Technical Data Sheet

### DESCRIPTION

**Sikafloor 29 PurCem** is a three component water based high strength coloured polyurethane mortar for detailing work and vertical rendering. It offers excellent resistance to abrasion, chemical attack and mechanical damage.

### USES

- \* In combination with **Sikafloor 20 PurCem**.
- \* Food process plants.
- \* Warehouses.
- \* Chemical plants.
- \* Pharmaceutical plants.
- \* Power plants.
- \* Storage areas.
- \* Plant rooms.
- \* Processing areas.
- \* Laboratories.
- \* Work shops.
- \* Cold stores.

### ADVANTAGES

- \* High mechanical resistance.
- \* High abrasion resistance.
- \* Excellent chemical resistance.
- \* Fast curing.
- \* Easy to apply.
- \* Durable.
- \* Steam cleanable at 9 mm+ thickness.

### FLOOR COATING SYSTEM:

**Primer:** 1 x **Sikafloor 155W/156/157**.  
Extended with approx 2% **Sika Extender T** and allowed to become tacky. Reprime if allowed to cure.

**Render/detailing profile:** 1 x **Sikafloor 29 PurCem**  
Layer thickness 3.0 - 25 mm

**Seal coat: (optional)** 1-2 x **Sikafloor 31 PurCem**

**Material consumption:** Approx 2.0 kg/m<sup>2</sup> per mm.

### Technical Data (typical)

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

**Density (SG):** Approx 2.0 kg/litre

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

**Substrate M.C:** ≤10% by Wt

#### MECHANICAL PROPERTIES:

**Compressive strength:** >50 N/mm<sup>2</sup>

**Heat resistance:** Continuous exposure  
70°C @ 6.0 mm  
120°C @ 9.0 mm

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

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

**Pot life:** 20 mins

**Final drying times:**  
Foot traffic: 12 hrs  
Lightly serviceable: 24 hours  
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.

Choose the correct primer to suit the substrate conditions:

**Sikafloor 155W** for humid substrates.

**Sikafloor 156** or **Sikafloor 157** for dry substrates.

## 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.

Gradually pour component C (aggregate) into the mixer for a further 3 minutes minimum until a uniform moist mix is obtained.

## APPLICATION

Prior to application, confirm substrate moisture content. If >10% by wt. **Sikafloor**<sup>®</sup> **EpoCem**<sup>®</sup> may be applied as a D.P.M. system

Apply **Sikafloor 29 PurCem** to the prepared substrate and compact to the appropriate thickness then finish the detailing profile with a coving trowel or steel float. If a primer is used, apply **Sikafloor 29 PurCem** whilst the primer is tacky. If the primer becomes tack free, reapply primer.

### 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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For maximum sealing of the cove, application should be performed with 1-2 coats of **Sikafloor 31 PurCem** to seal the surface aesthetically.

## IMPORTANT CONSIDERATIONS

- \* Do not apply **Sikafloor 29 PurCem** on substrates in which significant vapour pressure may occur.
- \* **Thinner C** is flammable. NO NAKED FLAMES.
- \* Always ensure good ventilation when using **Sikafloor 29 PurCem** in a confined space.
- \* Freshly applied **Sikafloor 29 PurCem** should be protected from damp, condensation and water for at least 24 hours.
- \* A retaining groove must be placed top and bottom of the cove detail to anchor the coving mortar (10mm x 10mm).
- \* For maximum hygienic requirements always seal **Sikafloor 29 PurCem** with **Sikafloor 31 PurCem** (1-2 coats).

## CLEANING EQUIPMENT

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

## PACKAGING

Refer to latest price list

## CONSUMPTION

Approximately 2.0 kg/m<sup>2</sup>/mm. (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).

