

PRODUCT DATA SHEET

Sikafloor®-22 PurCem®

MEDIUM TO HEAVY DUTY, SELF-LEVELLING POLYURETHANE SCREED FOR ANTI-SLIP PROPERTIES

PRODUCT DESCRIPTION

Sikafloor®-22 PurCem® is a multi-component, water-based coloured polyurethane hybrid flooring screed with self-smoothing properties. It is typically installed at 4 - 6 mm thickness.

USES

Sikafloor®-22 PurCem® may only be used by experienced professionals.

Sikafloor®-22 PurCem® is used as a scratch coat primer or basecoat in Sikafloor® PurCem® anti-slip system build ups, in areas of medium to heavy loading, high chemical exposure and abrasion.

CHARACTERISTICS / ADVANTAGES

- Good chemical resistance
- High impact and mechanical resistance
- High glass transition point
- Excellent chemical resistance
- Non tainting / odourless
- VOC free and environmental friendly
- Can be applied to substrates with high moisture content (7 days old or mature damp concrete)

ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients

APPROVALS / STANDARDS

- Polyurethane screed for concrete protection according to the requirements of EN 1504-2:2004 and conforms to the requirements of EN 13813: 2002, DoP 02 08 02 02 001 0 000014 1088, certified by Factory Production Control Body, 0086, certificate 541325, and provided with the CE-mark.
- EN1186, EN 13130, and prCEN/TS 14234 standards, and the Decree on Consumer Goods, representing the conversion of directives 89/109/EEC, 90/128/EEC and 2002/72/EC for contact with food stuffs, according to test report by ISEGA, 32758 U11 and 32759 U11, both dated December 6th, 2011. (Tests performed on Sikafloor® -20/21/22/29 and 31 PurCem® in standard and LP versions).
- British Standards Specifications (BSS) acceptance for use in the UK.
- Campden and Chorleywood Food Research Association, Ref. S/REP/125424/1a and 2a, dated 8th February, 2012
- Fire classification report according to EN 13501-1 from Exova Warrington Fire for Sikafloor®-21 Pur-Cem® No.317047, dated 24th of March, 2012
- Liquid water transmission rate test report from the Technology Centre, Ref. 15456 dated January 25th, 2012
- Thermal expansion coefficient and freeze-thaw cycle resistance performed at RWTH / IBAC, report nº M-1614 dated May 29th, 2012.

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PRODUCT INFORMATION

| n double paper | | | | |
|---|--|--|--|--|
| double paper | | | | |
| double paper | | | | |
| | | | | |
| o for substrata | | | | |
|) for cubetrata | | | | |
| 0.385 kg plastic pouch for substrate A neutral | | | | |
| Part A (pre-tinted)+B+C: 23.0 kg ready to mix units Part A (neutral)+B+C+D: 23.0 kg ready to mix units | | | | |
| | | | | |
| | | | | |
| brown liquid | | | | |
| natural grey powder | | | | |
| colourpack as per list below for part A neutral | | | | |
| Standard colours: Agate Grey, Beige, Dusty Grey, Grass Green , Light Grey, Maize Yellow, Oxide Red, Pebble Grey, Sky Blue | | | | |
| of production. | | | | |
| Protect from freezing. 12 months from date of production. Protect from freezing. | | | | |
| 6 months from date of production. Must be protected from humidity. | | | | |
| of production. | | | | |
| Original, unopened and undamaged sealed packaging, in dry conditions at temperature between +5 C° - +30 °C. | | | | |
| Part A (pre-tinted)+B+C mixed: $^{\sim}$ 1.93 kg/l \pm 0.03 (at +20°C) Part A (neutral)+B+C+D mixed: $^{\sim}$ 1.93 kg/l \pm 0.03 (at +20°C) | | | | |
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| (ASTM D 2240 | | | | |
| (BS EN 13892-2 | | | | |
| (BS EN 13892-2 | | | | |
| (EN 1542 | | | | |
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|): 3.0 : 17) by g size = 2.615 : | | | | |
| | | | | |
| | | | | |

~ 1.93 kg/m²/mm

85% max.

Base coat 4 – 6 mm

+10°C min. / +40°C max.

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Relative Air Humidity

Ambient Air Temperature

Consumption

Layer Thickness



| Dew Point | Beware of condensation! The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or other disturbance of the surface on the floor finish. | | | |
|----------------------------|---|------------------------------|---------------------------|---|
| Substrate Temperature | +10°C min. / +40°C | | | |
| Substrate Moisture Content | Can be installed on substrates with higher moisture content. No ponding water. Check rising moisture. The substrate needs to be visibly dry and have adequate pull-off strength min 1.5 N/mm ² . | | | |
| Pot Life | Temperatures | | Time | |
| | +10°C | | ~ 35 - 40 minutes | |
| | +20°C | | ~ 22 - 25 minutes | |
| | +30°C | | ~ 15 – 18 minutes | |
| | +35°C | | ~ 12 - 15 minutes | |
| Waiting Time / Overcoating | Before overcoating a broadcasted Sikafloor® -22 PurCem® with other Sikafloor® PurCem® products, allow: | | | |
| | Substrate temperature | Minimum | | Maximum |
| | +10°C | 24 hours | | No restriction |
| | +20°C | 24 hours | | No restriction |
| | +30°C | 12 hours | | No restriction |
| | +35°C | 12 hours | | No restriction |
| | strate conditions, partic If used other primers th | ularly tempe an Scratch C | rature and roat refer the | hanging ambient and sub- relative humidity. Technical Data Sheet of er and the scratch coat lay- |

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum. Pull of strength shall not be less than 1.5 N/mm². If in doubt apply a test area first.

MIXING

Premix part A with a low speed electric stirrer and then add part B and mix for 30 seconds. For the colourpack version, premix part A neutral with a low speed electric stirrer and add part D to it. Mix until a uniform colour is achieved. Ad part B and mix for 30 seconds.

Use a double paddle (axis) mixer and gradually add part C (aggregate) to the mixed resin. Allow part C to blend for further 2 minutes minimum, to ensure complete mixing and a uniform moist mix is obtained. During the operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once (parts A+B+C) to ensure complete mixing. **Mixing Tools**

Use a low speed electric stirrer (300 - 400 rpm) for mixing parts A and B. For preparation of the mortar mix use a double paddle mixer.

APPLICATION

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Prior to application, confirm substrate moisture con-

tent, relative humidity and dew point. As a scratch coat Sikafloor®-22 PurCem® can be applied using a steel trowel. As a body coat Sikafloor®-22 PurCem® can be applied using a toothed trowel or pin screed, to the desired thickness, or a steel trowel. Remove air with a spike roller.

For further details please refer to the related system data sheet.

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

FURTHER DOCUMENTS

er is fully cured before application of Sikafloor® PurCem® previous layer.

Please refer to:

- Sika® Information Manual Mixing and Application of Flooring Systems
- Sika® Information Manual Surface Evaluation & Preparation

BUILDING TRUST

■ Sikafloor® PurCem® System Data Sheets



LIMITATIONS

Do not apply to PCC (polymer modified cement mortars) that may expand due to moisture when sealed with an impervious resin.

Always ensure good ventilation when using Sikafloor®-22 PurCem® in a confined space, to prevent excessive ambient humidity.

Freshly applied Sikafloor®-22 PurCem®, must be protected from damp, condensation and direct water contact (rain) for at least 24 hours.

Protect the substrate during application from condensation from pipes or any overhead leaks.

Do not apply to cracked or unsound substrates. Always allow a minimum of 48 hours after product application prior to placing into service in proximity with food stuffs.

Products of the Sikafloor® -PurCem® product range are subject to discolouration when exposed to UV radiation. Extend depends on colour. There are no measurable losses of any properties when this occurs and it is a purely aesthetical matter.

Products can be used outside provided the change in appearance is acceptable by the customer. In some slow curing conditions, soiling of the surface may occur when opened to foot traffic, even though mechanical properties have been achieved. It is advised to remove dirt using a dry mop or cloth. Avoid scrubbing with water for the first three days.

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

SIKA IRELAND LIMITED

Ballymun Industrial Estate Ballymun Dublin 11, Ireland Tel: +353 1 862 0709 Web: www.sika.ie Twitter: @Sikalreland



SIKA LIMITED

Watchmead

Welwyn Garden City

Tel: 01707 394444

Hertfordshire, AL7 1BQ

Web: www.sika.co.uk

Twitter: @SikaLimited





ECOLOGY, HEALTH AND SAFETY

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC Product category IIA / j type wb) is140 g/l (Limit 2010), for the ready to use product. Sikafloor®-22 PurCem, is VOC free for the ready to use product.

LEGAL NOTES

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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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