

#### **BUILDING TRUST**

# PRODUCT DATA SHEET

# Sikafloor®-21 PurCem®

Medium to heavy duty self-smoothing polyurethane screed

#### PRODUCT DESCRIPTION

Sikafloor®-21 PurCem® is a multi-component, water-based coloured polyurethane hybrid screed with self-smoothing properties. It has a smooth, matt, impervious, hard wearing surface and is typically installed at 3 - 6 mm thickness.

#### **USES**

Sikafloor®-21 PurCem® is used as a scratch coat primer, basecoat and wear coat layer in Sikafloor®PurCem® system build ups, in areas of medium to heavy loading, high chemical exposure and abrasion.

## **CHARACTERISTICS / ADVANTAGES**

- Good chemical resistance.
- High mechanical resistance.
- High glass transition point.
- 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.
- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings.
- Complies AgBB for use in in indoor environment.
   Test.

## **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 000002 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.
- Abrasion resistance tests performed by Face Consultants Ltd., according to BS 8204-2:2003, report ref. FC/12/3850, dated January 17th, 2012. (Tests performed on Sikafloor® -20/21 PurCem®).
- Impact resistance values tested at PRA, Ref. nº 75221-151, dated January 11th, 2012.
- Slip resistance properties according to DIN 51130 tested at MPI (Materialprüfung und Entwicklung), test reports refs. № 12-6639-S/12 and 12-6641-S/12, dated August 7th, 2012.
- Thermal expansion coefficient and freeze-thaw cycle resistance performed at RWTH / IBAC, report nº M-1614 dated May 29th, 2012.

#### PRODUCT INFORMATION

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Part C 6 months from date of production.  Must be protected from humidity.  Part D 24 months from date of production.  Must be protected from humidity. 24 months from date of production.  Protect from freezing.  Storage Conditions Original, unopened and undamaged sealed packaging, in dry conditions at temperature between +5 °C to +30 °C.  Appearance / Colour Part A (pre-tinted) Coloured liquid Part A (neutral) Light beige liquid Part B Brown liquid Part C Natural grey powder Part D Colourpack as per list below for part A neutral  Standard colours: Agate Grey, Beige, Dusty Grey, Yellow Green, Golden Yellow, Carmine Red, Pebble Grey, Ultramarine Blue.  Density Part A (pre-tinted)+B+C mixed: ~1.93 kg/l ± 0.03 (at +20°C)  TECHNICAL INFORMATION  Compressive Strength > 50 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-15) Flexural Strength Concrete failure (EN 154)  SYSTEM INFORMATION  APPLICATION INFORMATION  Mixing Ratio Part A (pre-tinted): B: C = 1:1:5 (packaging size = 3.0:3.0:15) by weight	Chemical Base	Water-based polyurethane	cement hybrid		
Part A (neutral)   2.50 kg plastic pail   Part B   3.00 kg plastic jerry can   Part C   15.00 kg plastic jerry can   15.00 kg plastic jouch for substrate   A neutral   Part A (pre-tinted)+B+C: 21.0 kg ready to mix units   Part A (neutral)+B+C+D: 21.0 kg ready to mix units   Part A (neutral)+B+C+D: 21.0 kg ready to mix units   Part A (neutral)+B+C+D: 21.0 kg ready to mix units   Part B   12 months from date of production   Protect from freezing.   Part B   12 months from date of production   Protect from freezing.   Part D   Part A (pre-tinted)   Part A (pre-tinted)   Part A (pre-tinted)   Part A (part D   Part	Packaging	Part A (pre-tinted)	3.00 kg plastic pa	il	
Part C 15.00 kg plastic lined, double paper bags Part D 0.500 kg plastic pouch for substrate A neutral Part A (pre-tinted)+B+C: 21.0 kg ready to mix units Part A (neutral)+B+C+D: 21.0 kg ready to mix units Part A (neutral)+B+C+D: 21.0 kg ready to mix units Part A (neutral)+B+C+D: 21.0 kg ready to mix units Part B 12 months from date of production Protect from freezing. Part B 12 months from date of production Must be protected from humidity. Part D 24 months from date of production Must be protected from humidity. Part D 24 months from date of production Protect from freezing. Part D 24 months from date of production Protect from freezing. Part A (pre-tinted) Coloured liquid Light beige liquid Part A (neutral) Light beige liquid Part B Brown liquid Part B Brown liquid Part C Natural grey powder Part D Colourpack as per list below for par A neutral Standard colours: Agate Grey, Beige, Dusty Grey, Yellow Green, Golden Yellow, Carmine Red, Pebble Grey, Ultramarine Blue.  Density Part A (pre-tinted)+B+C mixed: "1.93 kg/l ± 0.03 (at +20°C) Part A (neutral)+B+C+D mixed: "1.93 kg/l ± 0.03 (at +20°C)  TECHNICAL INFORMATION  Compressive Strength > 50 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-Tensile adhesion strength Concrete failure (EN 154: SYSTEM INFORMATION)  APPLICATION INFORMATION  Mixing Ratio • Part A (pre-tinted) : B : C = 1 : 1 : 5 (packaging size = 3.0 : 3.0 : 15) by weight Part A (ill units only.  Consumption ~ 1.93 kg/m²/mm  Layer Thickness Scratch coat 1 - 2 mm					
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Part D		Part C	15.00 kg plastic li		
Part A (neutral)+B+C+D: 21.0 kg ready to mix units   Shelf Life		Part D	0.500 kg plastic p	ouch for substrate	
Protect from freezing. Part B 12 months from date of production Protect from freezing. Part C 6 months from date of production. Must be protected from humidity. Part D 24 months from date of production Protect from freezing. Part D 24 months from date of production Protect from freezing.  Storage Conditions Original, unopened and undamaged sealed packaging, in dry conditions at temperature between +5 °C to +30 °C.  Appearance / Colour Part A (pre-tinted) Coloured liquid Part B Brown liquid Part B Brown liquid Part C Natural grey powder Part D Colourpack as per list below for par A neutral Standard colours: Agate Grey, Beige, Dusty Grey, Yellow Green, Golden Yellow, Carmine Red, Pebble Grey, Ultramarine Blue.  Density Part A (pre-tinted)+B+C mixed: ~1.93 kg/l ± 0.03 (at +20°C) Part A (neutral)+B+C+D mixed: ~1.93 kg/l ± 0.03 (at +20°C)  TECHNICAL INFORMATION  Compressive Strength > 50 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-Tensile adhesion strength Concrete failure (EN 154.)  SYSTEM INFORMATION  APPLICATION INFORMATION  Mixing Ratio Part A (pre-tinted): B: C = 1: 1: 5 (packaging size = 3.0: 3.0: 15) by weight Part A (neutral): B: C: D = 0.87: 1: 5: 0.13 (packaging size = 2.615: 3.0. 3.4: 0.385) by weight Mix full units only.  Consumption ~1.93 kg/m²/mm  Layer Thickness Scratch coat 1 - 2 mm					
Part B Part C Part C Part C Part D Part D Part D Protect from freezing.  Storage Conditions  Original, unopened and undamaged sealed packaging, in dry conditions at temperature between +5 °C to +30 °C.  Appearance / Colour Part A (per-tinted) Part B Part B Part B Part B Part B Part D Coloured liquid Light beige liquid Part C Part D Colourpack as per list below for par A neutral Standard colours: Agate Grey, Beige, Dusty Grey, Yellow Green, Golden Yellow, Carmine Red, Pebble Grey, Ultramarine Blue.  Density Part A (per-tinted)+B+C mixed: ~1.93 kg/l ± 0.03 (at +20°C) Part A (neutral)+B+C+D mixed: ~1.93 kg/l ± 0.03 (at +20°C) Part A (neutral)+B+C+D mixed: ~1.93 kg/l ± 0.03 (at +20°C)  TECHNICAL INFORMATION  Compressive Strength > 50 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-Flexural Strength) > 10 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-Flexural Strength) Part A (per-tinted): B: C: D: 0.87: 1: 5: 0.13 (packaging size = 2.615: 3.63	Shelf Life	Part A		•	
Part C Part D Part A (pre-tinted) Part C Part D Part A (pre-tinted)		Part B	12 months from date of production.		
Storage Conditions Original, unopened and undamaged sealed packaging, in dry conditions at temperature between +5 °C to +30 °C.  Appearance / Colour  Part A (pre-tinted) Part B   Eight beige liquid   Eight   Eight beige liquid   Eight   Ei		Part C	6 months from da	ate of production.	
temperature between +5 °C to +30 °C.  Appearance / Colour  Part A (pre-tinted) Part B		Part D		•	
Part A (neutral) Part B Part B Part C Natural grey powder Part D Colourpack as per list below for par A neutral Standard colours: Agate Grey, Beige, Dusty Grey, Yellow Green, Golden Yellow, Carmine Red, Pebble Grey, Ultramarine Blue.  Density Part A (pre-tinted)+B+C mixed: ~1.93 kg/l ± 0.03 (at +20°C) Part A (neutral)+B+C+D mixed: ~1.93 kg/l ± 0.03 (at +20°C) Part A (neutral)+B+C+D mixed: ~1.93 kg/l ± 0.03 (at +20°C)  TECHNICAL INFORMATION  Compressive Strength > 50 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-Flexural Strength) > 10 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-Flexural Strength) Concrete failure (EN 154:  SYSTEM INFORMATION  APPLICATION INFORMATION  Mixing Ratio Part A (pre-tinted): B: C = 1:1:5 (packaging size = 3.0:3.0:15) by weight Part A (neutral): B: C: D = 0.87:1:5:0.13 (packaging size = 2.615:3.6 34:0.385) by weight Mix full units only.  Consumption ~1.93 kg/m²/mm  Layer Thickness Scratch coat 1 - 2 mm	Storage Conditions	Original, unopened and undamaged sealed packaging, in dry conditions at temperature between +5 $^{\circ}\text{C}$ to +30 $^{\circ}\text{C}.$			
Part A (neutral)   Part B   Brown liquid	Appearance / Colour	Part A (pre-tinted)	Coloured liquid		
Part B   Part C   Natural grey powder   Colourpack as per list below for par   A neutral   Standard colours: Agate Grey, Beige, Dusty Grey, Yellow Green, Golden Yellow, Carmine Red, Pebble Grey, Ultramarine Blue.    Density					
Part C Part D Colourpack as per list below for par A neutral Standard colours: Agate Grey, Beige, Dusty Grey, Yellow Green, Golden Yellow, Carmine Red, Pebble Grey, Ultramarine Blue.  Part A (pre-tinted)+B+C mixed: ~1.93 kg/l ± 0.03 (at +20°C) Part A (neutral)+B+C+D mixed: ~1.93 kg/l ± 0.03 (at +20°C)  TECHNICAL INFORMATION  Compressive Strength > 50 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-Flexural Strength) > 10 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-Flexural Strength) Concrete failure (EN 154:  SYSTEM INFORMATION  APPLICATION INFORMATION  Mixing Ratio  Part A (pre-tinted): B: C = 1:1:5 (packaging size = 3.0:3.0:15) by weight Part A (neutral): B: C: D = 0.87:1:5:0.13 (packaging size = 2.615:3.0:34:0.385) by weight Mix full units only.  Consumption  ~1.93 kg/m²/mm  Layer Thickness  Scratch coat 1 - 2 mm		Part B			
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Yellow, Carmine Red, Pebble Grey, Ultramarine Blue.  Density Part A (pre-tinted)+B+C mixed: ~1.93 kg/l ± 0.03 (at +20°C) Part A (neutral)+B+C+D mixed: ~1.93 kg/l ± 0.03 (at +20°C)  TECHNICAL INFORMATION  Compressive Strength > 50 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-15) Flexural Strength > 10 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-15) Tensile adhesion strength Concrete failure (EN 154:  SYSTEM INFORMATION  Mixing Ratio  • Part A (pre-tinted): B: C = 1:1:5 (packaging size = 3.0:3.0:15) by weight • Part A (neutral): B: C: D = 0.87:1:5:0.13 (packaging size = 2.615:3.0:34:0.385) by weight Mix full units only.  Consumption  ~1.93 kg/m²/mm  Layer Thickness Scratch coat 1 - 2 mm		Part D		r list below for part	
Part A (neutral)+B+C+D mixed: ~1.93 kg/l ± 0.03 (at +20°C)  TECHNICAL INFORMATION  Compressive Strength > 50 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-Flexural Strength) > 10 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-Flexural Strength) Concrete failure (EN 154:  SYSTEM INFORMATION  Mixing Ratio • Part A (pre-tinted) : B : C = 1 : 1 : 5 (packaging size = 3.0 : 3.0 : 15) by weight • Part A (neutral) : B : C : D = 0.87 : 1 : 5 : 0.13 (packaging size = 2.615 : 3.6 34 : 0.385) by weight Mix full units only.  Consumption ~1.93 kg/m²/mm  Layer Thickness Scratch coat 1 - 2 mm					
Compressive Strength > 50 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-150	Density	Part A (pre-tinted)+B+C mixed: ~1.93 kg/l ± 0.03 (at +20°C)			
Flexural Strength > 10 N/mm² after 28 days at +23°C / 50% r.h. (BS EN 13892-500 fr.h.)  Tensile adhesion strength Concrete failure (EN 154)  SYSTEM INFORMATION  Mixing Ratio  Part A (pre-tinted): B: C = 1:1:5 (packaging size = 3.0:3.0:15) by weight Part A (neutral): B: C: D = 0.87:1:5:0.13 (packaging size = 2.615:3.0 34:0.385) by weight Mix full units only.  Consumption  ~1.93 kg/m²/mm  Layer Thickness  Scratch coat 1 - 2 mm	TECHNICAL INFORMATION				
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SYSTEM INFORMATION  APPLICATION INFORMATION  Part A (pre-tinted): B: C = 1:1:5 (packaging size = 3.0:3.0:15) by weight Part A (neutral): B: C: D = 0.87:1:5:0.13 (packaging size = 2.615:3.0:34:0.385) by weight Mix full units only.  Consumption  ~1.93 kg/m²/mm  Layer Thickness  Scratch coat 1 - 2 mm	Flexural Strength	> 10 N/mm² after 28 days at +23°C / 50% r.h.		(BS EN 13892-2)	
APPLICATION INFORMATION  Part A (pre-tinted): B: C = 1:1:5 (packaging size = 3.0:3.0:15) by weight Part A (neutral): B: C: D = 0.87:1:5:0.13 (packaging size = 2.615:3.0:34:0.385) by weight Mix full units only.  Consumption  ~1.93 kg/m²/mm  Layer Thickness  Scratch coat 1 - 2 mm	Tensile adhesion strength	Concrete failure		(EN 1542)	
Mixing Ratio       ■ Part A (pre-tinted) : B : C = 1 : 1 : 5 (packaging size = 3.0 : 3.0 : 15) by weight         ■ Part A (neutral) : B : C : D = 0.87 : 1 : 5 : 0.13 (packaging size = 2.615 : 3.0 34 : 0.385) by weight         Mix full units only.         Consumption       ~1.93 kg/m²/mm         Layer Thickness       Scratch coat 1 - 2 mm	SYSTEM INFORMATION				
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Layer Thickness Scratch coat 1 - 2 mm	Mixing Ratio	weight • Part A (neutral): B: C: D = 0.87: 1:5:0.13 (packaging size = 2.615: 3.0 34:0.385) by weight			
·		~1.93 kg/m²/mm			
	Consumption	~1.93 kg/m²/mm			

 $+10^{\circ}$ C min. /  $+40^{\circ}$ C max.

Beware of condensation!

85% max.

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**Ambient Air Temperature** 

**Relative Air Humidity** 

**Dew Point** 



	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 max.			
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 <sup>2</sup> .			
Pot Life	Temperatures	Temperatures Tir		
	+10°C		~35 - 40 minutes	
	+20°C		~22 - 25 minutes	
	+30°C		~15 - 18 minutes	
	+35°C ~12		12 - 15 minutes	
Waiting Time / Overcoating	Before overcoating Sikafloor® -21 PurCem® allow:			
	Substrate Temperature	Minimum	Maximum	
	+10°C	24 hours	72 hours	
	+20°C	24 hours	48 hours	
	+30°C	12 hours	24 hours	
	+35°C	12 hours	24 hours	
	strate conditions, partic If primers other than as Sheet of the respective	ularly tempe cratch coat a product. Ma	ffected be changing ambient and sub- erature and relative humidity. re used, refer to the Technical Data ke sure that the primer and the scratch cation of Sikafloor® PurCem® previous	

#### **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.

#### **FURTHER DOCUMENTS**

Please refer to:

- Sikafloor® PurCem® Method Statement.
- Sika® Information Manual Mixing and Application of Flooring Systems.
- Sika® Information Manual Surface Evaluation & Preparation.
- 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®-21 PurCem® in a confined space, to prevent excessive ambient humidity.

Freshly applied Sikafloor®-21 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

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.

#### **ECOLOGY, HEALTH AND SAFETY**

**REGULATION (EC) NO 1907/2006 - REACH** 

# Regulation (EC) No 1907/2006 (REACH) - Mandatory training

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit www.sika.com/pu-training.





# 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®-21 PurCem, is VOC free for the ready to use product.

### **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

Prior to application, confirm substrate moisture content, relative humidity and dew point. As a scratch coat Sikafloor®-21 PurCem® can be applied using a steel trowel. As a body coat Sikafloor®-21 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.

#### SIKA LIMITED

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#### 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.

#### **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.

Sikafloor-21PurCem-en-GB-(08-2023)-5-1.pdf

