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SYSTEM DATA SHEET Sikafloor[®] PurCem[®] HS-24

Self-smooting, medium duty, matt polyurethane cement hybrid flooring system

DESCRIPTION

Sikafloor[®] PurCem[®] HS-24 system is made with polyurethane cement technology and is part of the Sikafloor[®] PurCem[®] flooring range.

The Sikafloor[®] PurCem[®] HS-24 system is especially designed to withstand chemical attacks, high impacts and can be used in wet and dry processing plants. The system consists of a highly durable polyurethane cement body coat, it has an aesthetic, easy to clean and smooth surface, providing medium slip resistance. Is typically installed at 4 to 6 mm thick.

USES

- Food processing plants
- Chemical plants
- Laboratories
- Workshops
- Bakeries
- Dry food production areas

CHARACTERISTICS / ADVANTAGES

- High chemical resistance. Resists a wide range of organic and inorganic acids, alkalis, amines, salts and solvents
- Good resistance to fire
- High mechanical and abrasion resistance
- Easy application
- Easy to clean and maintain
- Seamless, non-taint, odourless
- Smooth, matt surface
- Tolerant to moisture in the substrate
- Very good life cyclecost performance
- P3 Slip Rating (AS 4586-13)

SUSTAINABILITY

Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

APPROVALS / CERTIFICATES

- Screed material for floor screeds according to EN 13813:2002, Declaration of Performance 02 08 02 02 001 0 000017 1088, certified by notified factory production control body 0086, certificate of conformity of factory production control 541325, and provided with the CE-mark.
- Surface protection coating for concrete according to EN 1504-2:2004, Declaration of Performance 02 08 02 02 001 0 000017 1088, certified by notified factory production control body 0086, certificate of conformity of factory production control 541325, and provided with the CE-mark.
- Slip resistance properties according to DIN 51130 tested at MPI (Materialprüfung und Entwicklung), test reports refs. № 12-6638-S/12, dated August 7th, 2012.

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System structure	Sikafloor® PurCem® HS-24		
	1. Scratch coat	Sikafloor [®] -24 PurCem [®]	
	2. Body coat	Sikafloor [®] -24 PurCem [®]	
	As optional primers Sikafloor®-156/-161 + quartz sand 0.4–0.8 mm broadcast to excess can be used. Please refer to the individual Product Data Sheet.		
	Composition	Water-based polyurethane cement hybrid	
Appearance	Smooth surface, matt finish		
Colour	Available RAL colours: Dusty Grey - Traffic Grey - Curtain Call - Beige - Maize Yellow - Oxide Red - Sky Blue - Grass Green Other RAL colours MTO as per Sikafloor PurCem colour chart		
Nominal thickness	~ 3-5 mm		
Volatile organic compound (VOC) con- tent	Very low VOC content, in line with the EU-Directive 2004/42		

TECHNICAL INFORMATION

Shore D Hardness	~80		(ASTM D 2240)
Abrasion resistance	Class "Special" Severe abrasion resistance		(BS 8204 Part 2)
	AR 0.5		(EN 13892-4)
	Class A6	Class A6	
	<u>≤ 3000 mg (H-22/1000/100</u>	≤ 3000 mg (H-22/1000/1000)	
Compressive strength	≥ 50 N/mm ² after 28 days	≥ 50 N/mm ² after 28 days at +23 °C / 50% r.h.	
	≥ 44 MPa after 28 days at -	≥ 44 MPa after 28 days at +23 °C / 50% r.h.	
Tensile adhesion strength	≥ 1.5 N/mm ²		(EN1542)
Reaction to fire	B _{fl} -s1		(EN 13501-1)
Chemical resistance	Please refer to Sikafloor [®] PurCem [®] chemical resistance guide. Contact Sika technical service for specific information.		
Temperature resistance	3 mm -5 ℃ to +50 ℃	4–5 mm -10 °C to +70 °C	2
USGBC LEED Rating	Conforms Section EQ (Indoor Environmental Quality), Credit 4.2 Low-Emit-		

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	ting Materials Paints and Coatings. Calculated VOC content \leq 50 g/l		
Skid / slip resistance	R 10		(DIN 51130)
	P3		(AS 4586-13)
	SRV Dry	SRV Wet	(EN 13036- 4)
	70	60	

APPLICATION INFORMATION

Consumption	Layer	Product		Consumption		
	1. Scratch coat	Sikafloor®	-24 PurCem®			
	2. Body coat			~ 1.9 kg/m²/mm		
	Consumptions are theoretical and do not include any wastage, additional material need due to porosity, substrate profile etc.					
Material temperature	Please refer to t	Please refer to the individual Product Data Sheet				
Ambient air temperature	+10 °C min / +40	+10 °C min / +40 °C max				
Relative air humidity	80 % max	80 % max				
Dew point	The substrate a	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	+10 °C min / +40 °C max				
Substrate moisture content	Sikafloor [®] PurCem [®] HS-24 can be installed on substrates with higher mois- ture content. The substrate needs to be visibly dry and have an adequate pull-off strength min 1.5 N/mm ² . No ponding water. Check for rising mois- ture.					
Applied product ready for use	Temperature	Foot traffic	Light traffic	Full cure		
	+10 °C	~ 20 hours	~ 34 hours	~ 7 days		
	+20 °C	~ 12 hours	~ 16 hours	~ 4 days		
	+30 °C	~ 8 hours	~ 14 hours	~ 3–4 days		

BASIS OF PRODUCT DATA

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 INFORMATION

Please refer to:

- Sikafloor[®] PurCem[®] Method Statement
- Sika[®] Method Statement Mixing and Application of Flooring Systems
- Sika[®] Method Statement Surface Evaluation & Preparation
- Sikafloor[®] PurCem[®] Product Data Sheets

IMPORTANT CONSIDERATIONS

- 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[®] PurCem[®] products in a confined space, to prevent excessive ambient humidity.

- Freshly applied Sikafloor[®] PurCem[®] products, 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.
- Extent 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





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For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

MAINTENANCE

CLEANING

Please refer to Sikafloor®- Cleaning Regime.

LOCAL RESTRICTIONS

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

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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