Sigma Sigmafloor 1K

Alkyd urethane paint for concrete floors





Use	Sigma Sigmafloor 1K is a one-component alkyd urethane paint for concrete floors and walls with low service loads. The product is designed to protect and decorate flooring and walls. It improves the aesthetics and makes cleaning easier. The paint can also be applied to vertical substrates (e.g. wainscot). It can be used in rooms such as industrial halls warehouses, garages, cellars, staircases, etc. It is suitable both for new buildings and for carrying out renovations on existing, well-bonded coatings.		
Key advantages of the product	– excellent adhesion – resistant to detergents, mineral oils, diesel and temporary exposure to petrol, grease and ammonia water – coating resistant to hot tyres (excellent adhesion) – highly durable coat – can be used outdoors – wear resistant – excellent application properties - high covering power		
Colours	Colours available in the Color PRO computer colouring system RAL 7045		
Gloss level	Satin		
Specifications			
	Brookfield viscosity 20±2°C, min. [mPas]	PN-ISO 2555	1600-2800 / 50RPM
	Density 20±0.5°C, [g/cm^3]	PN-EN ISO 2811-1	1.14-1.22
	Coat drying time at 23±2°C [h]	PN-C-81519	8
	Drying and curing times	Dry to touch: Time to recoat: Pedestrian traffic: Circular traffic:	4 h 8 h 3 days 14 days
	Solids content, min. [%vol]	PN-EN ISO 3251	60
	Coat resistance to abrasion, min. [kg/µm]	PN-C-81516	0.6
	Ignition temperature, [°C] min.	PN-EN ISO 1523	40
	Abrasion resistance [mg], Taber test, 1000 cycles,	PN-EN ISO 5470-1:2001	300

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For more information and current reference documents, call the hotline at 801 11 33 11 or visit www.profesjonalnefarby.pl.
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Hardness of the coating	PN-EN ISO 1522:2001	45
Slip resistance	PN-EN ISO 1436:2007, Annex D	Rubber TRL (55): dry:100 wet:30; Rubber 4S (96): dry: 60; wet: 40
Adhesion to concrete, pull-off test	PN-EN ISO 2624	>5 MPa
Recommended wet film thickness with one coat [µm]	PN-EN ISO 2808	100

VOC	VOC limit according to Directive 2004/42/EC (cat. A/i/FR): 500 g/L (2010). The product contains max.500 g/l.
Shelf life	24 months from the date of production
Application method	Brush, roller, or spray
Recommended tools	PRO Flat Brush, OVAL Brush, Microfibre Floor roller by PROGOLD

Spray coating

Tool	Min. pressure	Min nozzle size	Filter mesh	Recommended dilution ratio	Remarks
GRACO Ultra Max 695 or larger	180-190 165	FFA 412,512,612 NO. 412,512,612	60	0 %	—

Standard yield	Up to 10 m²/l with one coating, depending on the substrate absorption capacity and roughness.
Recommended number of layers	2-3

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Substrate preparation	Apply the paint over a clean, dry, solid, dust and dirt free substrates, without traces of oil, grease and other contamination. The paint should be applied at least 8 weeks after pouring the floor and seasoned in optimal conditions (air temperature +20°C, relative air humidity 55%). The humidity of the floor to be painted should be: - max. 2% concrete sleepers, - max. 0.5% anhydrite primers. New mechanically troweled subfloors (concrete floors, anhydrite screeds) and smooth, compact surfaces should be sanded to ensure proper adhesion and to remove cement wash. For exterior use, use paint with 15% thinner as a primer. Renovation: - Existing coatings should be cleaned, degreased and matt to ensure proper adhesion of the applied coating. All loose, flaking parts should be removed. Fill any gaps and leave to dry and harden. Apply the product to the prepared substrate according to the instructions. In the case of renovation of old paint coatings, a test painting should be performed. Obtaining a positive result determines the final use of the product.
Application	Stir the product thoroughly before use. Apply by brush, roller or airless spray. For the first (priming) coat, thin the paint with Jedynka Rozcieńczalnik Niskoaromatyczny for Phthalic and Alkyd Products by up to 15% by volume. Apply the next coat using the product as supplied after a minimum of 8 hours. The coating may be carefully put into service under light load conditions 3 days after application of the final coat.

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Additional information	Low temperature and high air humidity extend the drying time. Provide constant ventilation during drying and curing. Clean the tools after work with a general purpose phthalate thinner directly after painting. Painting should be done at air and surface temperature of +10 to +30°C and air humidity below 80%. When using the product, especially in the case of spray application, observe the OHS requirements (spray application may only be used in installations where emission standards are applied). Use the paint carefully during the first week after application – do not clean the surface with water. Use the primer recommended by the colour system for low hiding power colours. Some colours available in the computer colouring system may show slight differences in shade between individual lots of the pigmented product. To avoid colour differences, coat the entire single work surface with the product from the same batch. Mix the product from different production lots together to obtain a uniform shade. Rework the coat wet on wet if needed. Prior to the application of the product, check the conformity of colour in all packages with reference to the purchase order. As a result of intensive use, black marks from shoes or tires may appear, which do not affect the durability of the coating.
PKWiU (Polish Classification of Goods and Services)	20.30.12.0
Approvals	The product has been approved by the Polish National Institute of Hygiene (PZH). The product meets the requirements of standard 13813 DWU-PPGDP-238-PL

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CE	
PPG Deco Polska Sp. z o.o ul. Kwidzyńska 8; 51-416 Wrocław, Polska	
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DWU-PPGDP-238-PL declaration available at: www.profesjonalnefarby.pl	
SIGMAFLOOR 1K	
EN 13813:2002	
A material designed for the production of floor coverings used inside buildings. SR floor underlays. **EN 13813 SR-B2,0-AR0,5-IR7**	
Reaction to fire [class]	B_{fl} - s1
Abrasion resistance [µm].	Class ARO,5 (≤50µm)
Adhesion to concrete [MPa]	Class B2.0 (≥2.0MPa)
Impact resistance [Nm]	IR7

OHS and Fire Protection Recommendations	Follow the instructions on the container. See the Safety Data Sheet available at www.profesjonalnefarby.pl for details
Containers	5 L - base LN, ZN RAL 7045

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