



Sigmafloor 1K

Alkyd urethane paint for concrete floors



Use 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:	4 h
	Time to recoat:	8 h
	Pedestrian traffic:	3 days
	Circular traffic:	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	PN-EN ISO 5470-1:2001	300

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cycles,		
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

Substrate Apply the paint over a clean, dry, solid, dust and dirt free substrates, without traces of

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For more information and current reference documents, call the hotline at 801 11 33 11 or visit www.profesjonalnefarby.pl.

The information in this Technical Data Sheet was prepared according to our best knowledge and it is valid on the date of issue. The Company reserves the right to change the information without notice. Since PPG Deco Polska Sp. z o.o. is in no position to control the product application, the company assumes no responsibility on the basis of this Technical Data Sheet.





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preparation

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. The paint should be applied using a brush, roller or hydrodynamic spray. For the first (priming) coat, use paint thinned with PROGOLD Thinner for phthalates at up to 15 volume %. The next coat should be painted with commercial paint after min. 8 hours. The coat may be used carefully at light loads after 3 days from coating with the final layer.



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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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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-ARO,5-IR7	
Reaction to fire [class]	B _{f1} - 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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