

ProFast Floor Coating

Description and application

ProFast Floor Coating is an autocatalytic floor coating based on polyurea combinations. This unique floor coating is colour-fast and can be used for in- and outside applications. ProFast is up to 3 times more wear and scratch-resistant than epoxy and polyurethane coatings.

Because of the quick drying time is ProFast Floor Coating ideal for walkways, balconies, terraces and stairwells. It also can be used in warehouses, distribution centres en production facilities.

Based on ProFast technology decorative systems can be applied. Please consult the ProFast system data sheets. ProFast Floor Coating is also available as an anti-slip coating.

Article number and packaging

16200-2	in 2,5 kg set
16200-5	in 5 kg set
16200-10	in 10 kg set

Properties

- Quick drying.
- Zero shrinkage.
- Colour-fast and UV proof.
- Excellent preservation of colour and gloss.
- For out- and indoor applications.
- Can be applied without a primer most of the time.
- Good chemical resistant.
- Up to 3 times more wear and scratch resistant than traditional flooring systems.
- Resistant against plasticizers.

Shore hardness	±D 67 (DIN 53505, ASTM D2240)
UV resistance	Complete UV-proof
Color	15 colours based don RAL standard. ± 1001, ± 1003, ± 1019, ± 3002, ± 5002, ± 5024, ± 6011, ± 7001, ± 7012, ± 7021, ± 7030, ± 7032, ± 7035, ± 8012, ± 9010. See for this the ProFast colour card. Other colours are project based and on request available.
Appearance	Shiny with a slightly textured structure.

Thermal

Load

Permanent
Brief (a maximum of 7 days)
Brief (a maximum of 12 hours)

Dry heat

+80°C
+100°C
+120°C

Brief wet heat up to a maximum of +80°C and only occasionally, for instance when steam-cleaning. Simultaneous chemical and mechanical loads are not permitted.

Liquid product properties

Density	1,25 kg /l mixed product
Volume solids	100%
VOC content	See MSDS
Shelf life	At least 6 months after the date of production, if stored cool in unopened packaging and protected against frost.

Application information

Method	Trowel, Squeegee, roller or brush depends on the application.		
Coverage	0,15 – 0,30 kg /m2 /layer, depending of the surface and substrate structure.		
Mixing ratio	665 gram A : 335 gram B		
Dilution	ProFast Thinner. Maximum 5% only to added once base and hardener have been mixed. Adding thinner will affect the final physical properties.		
Potlife*	15°C	approx. 35 minutes	
	20°C	approx. 30 minutes	
	30°C	approx. 25 minutes	
Application temp.	Substrate	between -10°C and +30°C	
	Product	between +10°C and +25°C	
Walkable*	-10°C	after 2,5 hrs	
	0°C	after 2,0 hrs	
	10°C	after 1,5 hrs	
	20°C	after 1,0 hrs	
	25°C	after 45 min	
Recoat time*	-10°C	Min. 2,5 hrs	Max. 48 hrs
	0°C	Min. 2,0 hrs	Max. 48 hrs
	10°C	Min. 1,5 hrs	Max. 48 hrs
	20°C	Min. 1,0 hrs	Max. 24 hrs
	25°C	Min. 45 min	Max. 24 hrs
Chemical load*	3 x 24 hrs		
Water load*	2 – 3 hrs		
Mechanical load*	2 – 3 hrs		
Cleaning agent	Roca Cleaner R5518 (tools)		

*At 65% relative humidity. The times and values given are approximates only and are affected by fluctuating surface and



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environmental conditions such as temperature, relative humidity ventilation and usage per m2. Values are given at 0,25 kg /m2.

Mixing instructions

Two-component products must always be mechanically mixed, preferably with a continuously adjustable mixing machine/drill. Use a suitable mixer and/or whisk of the correct size. As a guideline, the diameter of the mixer or whisk must be at least 1/3 of the diameter of the container in which the product is mixed.

First, mix the base component and the hardener together. Pour some of the mixed material back into the hardener container and mix it in the container until all the hardener has been used. Next, pour this mixture back into the base component container and mix it again until a homogenous mixture is obtained.

When combining partial containers, both components must be carefully stirred and weighed.

Comments during application

Avoid wide temperature differences between the product and the surface as this could have an adverse effect on the end-product.

Allow the material to acclimatize for at least 24 hrs.

Two-component products may only be applied when the relative humidity is less than 85%.

The minimum application temperature is -10° C and the temperature of the surface to be treated must be 3°C above the dew point. Check the dew point table.

Substrates with a low temperature will affect the application and the usage of the coating per square meter. If necessary the product can dilute with ProFast Thinner.

Full curing is accelerated in high ambient or substrate temperatures and slowed in lower temperatures. Pot life times depend on product temperature. Care should be taken on both counts.

Mix the components well. Apply an even, thin, closed layer to the sub-floor using a brush or fleece roller. Then roll again with a 50 or 70 cm wide floor roller.

Surface conditions

The surface must be healthy, with minimum compression strength of 25 N/mm2 and minimum bond strength of 1.5 N/mm2 for standard floors and 2,0 N/mm2 for heavy-duty floors.

The surface must be clean and free of diesel, oils and grease. All loose friable materials and foreign bodies must be removed by abrasive blasting, captive blasting, high pressure water blasting. This is to remove all surface laitance.

All concrete and anhydrite surfaces must be at least 28 days of age. Roughen anhydrite self leveling floors by blasting or sanding, depending on the surface tensile strength, and if possible apply a impregnating primer first.

Monolithic floors and formed surfaces must be abrasive blasted or other preparation means to clean and profile.

Remove any cement-skin and concrete residues by grinding and/or sanding.

Smooth and dense sub-floors (e.g. concrete) should be roughened (profiled) by (dust-free) blasting. Unclean surfaces should be treated with a flame-gun and thereafter sanded. Always vacuum the floor to remove dust using an industrial vacuum cleaner.

Moisture content of surface: < 10% (parts by weight).

For detailed information regarding the pre-treatment of surfaces, please see the "Surface pre-treatment" product information sheet.

System sheets

Based on ProFast products are several systems, smooth, decorative, and anti-slip, composed. For this there are systems sheets available

Important

Projects and uses can vary greatly. Always contact your supplier if in doubt about a certain use, choice of material or surface treatment. All the technical information given in this technical information sheet is based on laboratory tests. Information can change, depending on the conditions.

Legal notification

The information and, in particular, the recommendations concerning the application and final use of Prokol products is issued in good faith based on Prokol's current knowledge and experience of products that are correctly stored, handled and applied under normal conditions.



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In practice, the differences in materials, substrates and local conditions are such that no guarantee can be given concerning the marketability or suitability for a certain objective, nor can any liability arise from any legal relationship based on this information, nor from any written recommendations or other advice that is given. The property rights of third parties must be respected.

Prokol guarantees that its products are free from manufacturing faults. Multi-component products are a finished product once the components have been mixed and processed. When mixed and processed correctly, the product will achieve the specifications given. Prokol can only guarantee the product when surfaces are processed and pre-treated correctly.

All orders are accepted under the current sales and delivery conditions.

Users must always refer to the most recent product safety information sheet and product information sheet for the product concerned. A copy of these sheets will be provided on request and is also available from www.prokolusa.com. This requires a login name and a password.

The publication of this product information sheet makes all previous product information sheets for this product invalid.



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