

ProFast Flooring

Description and application

ProFast Flooring 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 Flooring is up to 3 times more wear and scratch-resistant than epoxy and polyurethane coatings, cures fast and can be applied with a roller or brush.

The quick-curing time makes ProFast Flooring ideal for walkways, balconies, terraces and stairwells. It also can be used in warehouses, distribution centres and production facilities.

Based on ProFast technology, decorative systems can be applied. ProFast Flooring is also available as an anti-slip coating.

Article number and packaging

| | |
|----------|-----------|
| 16200-5 | 5 kg set |
| 16200-10 | 10 kg set |

Properties

- Quick curing
- Zero shrinkage and almost odourless
- Colour-fast (aliphatic) 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 resistance
- Up to 3 times more wear and scratch resistant than traditional flooring systems
- Resistant against plasticizers

Wear-resistance Taber 80 mg
1000 cycles, 1000 g load, CS17

Adhesion strength

- Dry mineral surfaces > 5,5 MPa
- Moist mineral surfaces > 2,2 MPa

Thermal

| Load | Dry heat |
|-------------------------------|----------|
| Permanent | +80 °C |
| Brief (a maximum of 7 days) | +100 °C |
| Brief (a maximum of 12 hours) | +120 °C |

Short-term 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.

Properties liquid product

| | |
|---------------|---|
| Colour | Available in RAL colours, see colour overview. <i>Other colours are available on project basis and on request.</i> |
| Finish | Gloss with a slight roll effect |
| Density | 1,25 kg/l mixed product |
| Volume solids | 100% |
| Shelf life | At least 12 months after the date of production, if stored cool in unopened packaging and protected against frost. |

Application information

| | | | |
|-----------------------|---|--------------------|---------------|
| Method | Trowel, squeegee, roller or brush | | |
| Usage | 0,15 – 0,30 kg/m ² /layer <i>Surface dependent</i> | | |
| Mixing ratio | 665 gram A : 335 gram B | | |
| Potlife | At 15 °C | approx. 35 minutes | |
| | At 20 °C | approx. 30 minutes | |
| | At 25 °C | approx. 25 minutes | |
| Application temp. | Surface | -10 and +30 °C | |
| | Product | +10 and +25 °C | |
| Walkable | At -10 °C | After 2,5 hours | |
| | At 0 °C | After 2 hours | |
| | At 10 °C | After 1,5 hours | |
| | At 20 °C | After 1 hour | |
| | At 25 °C | After 45 minutes | |
| Recoat time | At -10 °C | Min. 2,5 hours | Max. 48 hours |
| | At 0 °C | Min. 2 hours | Max. 48 hours |
| | At 10 °C | Min. 1,5 hours | Max. 48 hours |
| | At 20 °C | Min. 1 hour | Max. 24 hours |
| | At 25 °C | Min. 45 min | Max. 24 hours |
| Chemical resistant* | After 3 x 24 hours | | |
| Mechanical resistant* | After 2 – 3 hours | | |
| Dilution | ProFast thinner. A maximum of 5% only to be added once base(A) and hardener(B) have been mixed. Adding thinner can affect the curing times. | | |
| Cleaning agent | Roca Cleaner R5518 (equipment) | | |
| Hands | Swarfega Blackbox Cleaning wipes (They are also supplied by Prokol). | | |

The times and values given are approximate and are affected by fluctuating surface and environmental conditions such as (product)temperature, relative humidity and layer thickness. Values are given at 0,25 kg/m²/layer

* At 20 °C and 65% RH surface.
** At 1 kg and 20 °C product.



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Mixing instructions

2-component products must always be mechanically mixed, preferably with a continuously adjustable mixing machine on low speed (300 – 400 RPM) or other suitable mixing equipment. Use a clean mixing rod which matches the size of the container. Mixing too fast and too long should be avoided in order to minimise air entrapment.

First mix component A until it is a homogenous mixture. Add component B (completely drained or scraped) to component A and mix at least 2-3 minutes until it is a homogenous mixture. To exclude unmixed materials (bottom/sides) are processed, transfer the mixture to a clean mixing bucket/tub and mix again.

When using additives such as quartz sand or the like, only add when the mixture is a homogenous mixture. After adding, please mix thoroughly again.

When mixing parts, both components must be mixed separately and carefully and weighed accurately.

Notes during application

2-component products may only be applied when the relative humidity is between 35 - 85%. A low humidity will result in slower curing.

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

Low surface temperatures affect the ease of application and usage of the coating per square meter. If necessary, the product can be diluted. See application information.

The curing process occurs more quickly at higher temperatures and slower at lower temperatures. The potlife is partly dependent on the product temperature. The curing of the product depends on the applied layer thickness. From a usage of 0,25 kg/m²/, the curing time increases.

After mixing, apply a thin, closed layer to the surface using a brush or fleece roller. Then roll again with a (50 or 70 cm) floor roller.

Surface and circumstances

The surface must be healthy, with a minimum compression strength of 25 MPa and a minimum adhesion strength of 1,5 MPa for normal used flooring and 2 MPa for heavy load flooring (e.g. parking floors).

The surface must be clean and free of grease. All loose components must be removed. Concrete must be at least 28 days old. Any cement skin must be removed. Monolithic floors must be sanded and any dust must be removed. Remove cement skin and concrete residues by grinding or sanding.

The surface must be free from pressure or rising water from the subsoil.

Pre-treat contaminated surfaces using flame blasting. After sanding, carefully remove dust from the surface using an industrial vacuum cleaner. Be aware that sanding can lead to filling of the pores, which can lead to reduced adhesion.

Moisture content surface

- cement-bound : < 10% CM (parts by weights)
- plaster-bound : < 0,5% CM (parts by weights)

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

System sheets

There are several smooth, decorative, and anti-slip systems composed based on ProFast products. Here for there are systems sheets available.

Important

Projects and applications can vary greatly. Always contact your supplier if you have doubts about a certain application, 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.

In practice, the differences in materials, surfaces 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.

* At 20 °C and 65% RH surface.
** At 1 kg and 20 °C product.



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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.

Copies of the most recent editions are provided upon request and are available at www.prokol.com.

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

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