

Prokol FireGuard Pro 200

Description and application

Prokol FireGuard Pro 200 is a primerless application or high-solid 2 K coating based on polyurea combinations. Prokol FireGuard Pro 200 has been developed to achieve an excellent and safe reaction with fire, combined with easy cleanability and high UV resistance. Fireguard has fire class A2-s1,d0. This products has easy cleanability and high UV resistance and is suitable for coating mineral surfaces, metals, wood and plasterboard.

Prokol FireGuard Pro 200 is suitable for:

- Ceilings, floors and walls in public buildings
- Stairwells
- Facades

This product reaches optimal properties when it comes to fire safety, mechanical properties and weather resistance with a layer thickness of 150 micron.

Prokol FireGuard Pro 200 curing quickly at room temperature.

Independently tested by Warrington Fire Gent.

Test method EN 13501-1:2007+A1:2009.

Classification Report No: 18831B class A2-s1,d0.



Article number and packaging

42081-5	5 kg set
42081-10	10 kg set

Properties

- Safe in combination with fire
- Wear resistant
- Easy to clean
- Anti-corrosion
- Cures quickly under most circumstances

Independently tested on:

Hardness – BS EN ISO 1580	Passed
Fire retardant – EN 13501-1:2007+A1:2009	Passed
QUV – ISO 11507	Passed
Resistance – ISO 6272-1	Passed
Cleanability – ISO 2812-1	Passed
Water	Passed
Detergent	Passed
Sainsbury Multi-surface cleaner	Passed

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, egg gloss and mat on request
Density	1,43 kg/l mixed product
Viscosity	A component approx. 1500 MPa B component approx. 1000 MPa
Volume solids	>89%
VOC quality	85 g/l
Shelf life	At least 12 months after the date of production, if stored cool in unopened packaging and between 5 °C and 40 °C

Application information

Method	Trowel, squeegee, spraying gun, air mix <i>Always apply two layers when hand-applied, apply one layer when applied with a spraying technique.</i>
Usage	0,20 – 0,25 kg/m ² /layer
Theoretical usage	6 – 10 m ² /l
Mixing ratio	795 gram A : 205 gram B
Potlife**	Approx. 30 minutes <i>The viscosity will increase during processing.</i>
Spraying pressure	70 – 130 bar air mix, nozzle 9,13,15 30/40/60 degrees.
HVLP gun	3,5 – 4 bar needle 2
Layer thickness (dry)	140 – 160 microns
Recoat time*	After 4 hours
Chemical resistant*	After 4 x 24 hours
Dust dry*	After 45 minutes
Dilution	ProFast TH-S. A maximum of 3%, depending on the used equipment, application method and temperature of the mixed product. Only to be added once base(A) and hardener(B) have been mixed.
Cleaning agent	Roca Cleaner R5518 (equipment)

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.

* At 20 °C and 65% RH surface.

** At 1 kg and 20 °C product.



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Prokol FireGuard Pro 200

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

Allow the material to acclimatize for at least 24 hours. Avoid wide temperature differences between the product and the surface as this could have an adverse effect on the end-product.

This product may only be applied when the relative humidity is between 35% and 90%. A higher humidity will speed up the curing times and a lower humidity will result in a slower curing. The potlife of the mixed is partly depending on the temperature of the product.

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.

Some colours may require a second layer due to coverage.

Surface and circumstances

- Concrete surfaces must be dry, clean, uncontaminated and free of dust, the surface should be sanded or blasted for better adhesion.
- Plaster-bound surfaces must be clean and free from dust and contamination.

Moisture content surface

- cement-bound : < 4% CM (parts by weights)
- plaster-bound : < 0,5% CM (parts by weights)

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

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.

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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