ProFast Topcoat **80-FS**

Description and application

ProFast Topcoat 80-FS is an autocatalytic, solvent-free topcoating based on polyurea combinations. ProFast Topcoat 80-FS has quick-curing properties and has been certified by TNO for the storage of dry substances for food preparation and food contact. It can be used for in- and outdoor applications.

Available certificates::

- **TNO approved**

Article number and packaging

16230-5	5 kg set
16230-10	10 kg set

Properties

- Quick curing
- Zero shrinkage and almost odourless
- Completely solvent-free
- Colour-fast (aliphatic) and UV proof
- Excellent preservation of colour and gloss
- Completely water resistant
- For out- and indoor applications
- Very low dirt absorption
- Good chemical resistance
- Up to 3 times more wear and scratch resistant than traditional flooring systems
- Resistant against plasticizers

Thermal

Load	***Dry heat***
Permanent	+80 ºC
Brief (a maximum of 7 days)	+100 ºC
Brief (a maximum of 12 hours)	+120 ºC

Short-term wet heat up to a maximum of +80 ºC 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. *Other colours are available on project basis and on request.*
Finish	Gloss
Density	1,48 kg/l mixed product
Volume solids	100%
Shelf life	At least 6 months after the date of production, if stored cool in unopened packaging and protected against frost. Drums should always be placed on pallets to avoid direct contact with the floor.

Application information

Method	Roller and brush	
Usage	0,15 – 0,30 kg/m²/layer *Surface, processing method and desired colour dependent. Must allow for two coats minimum.*	
Mixing ratio	715 gram A : 285 gram B	
Potlife	At 15 ºC	approx. 20 minutes
	At 20 ºC	approx. 25 minutes
	At 25 ºC	approx. 20 minutes
Application temp.	Surface	-10 and +30 ºC
	Product	+10 and +25 ºC
Walkable	At -10 ºC	After 3,5 hours
	At 0 ºC	After 3 hours
	At 10 ºC	After 2,5 hours
	At 20 ºC	After 2 hours
	At 25 ºC	After 1,5 hour
Recoat time	At -10 ºC	Min. 3,5 hours Max. 48 hours
	At 0 ºC	Min. 3 hours Max. 48 hours
	At 10 ºC	Min. 2,5 hours Max. 48 hours
	At 20 ºC	Min. 2 hours Max. 24 hours
	At 25 ºC	Min. 1,5 hour Max. 24 hours
Chemical resistant*	After 3 x 24 hours	
Mechanical resistant*	After 2 – 3 hours	
Water resistant*	After 2 – 3 hours	
Dilution	Preferably none, otherwise ProFast TH-S. A maximum of 5% only to be added once base(A) and hardener(B) have been mixed. Adding thinner can affect the curing times. Note that the environment in which the product is applied allows for the consumption of dilution.	
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. Values are given at 0,25 kg/m²/layer

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.

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

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Liquid synthetic materials for a sustainable future

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.

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.

With some colours, a second layer may be necessary. The development of puddles needs to be prevented because it will strongly influence the drying time.

Surface and circumstances

Mineral surfaces

The surface must be absorbent in nature. 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.

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.

Moisture content surface

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

The surface should be free of any free water film and must be free from pressure or rising water from the subsoil.

- Floors and walls
  - Apply a layer ProFast Primer RW with a usage of 0,10 – 0,15 kg/m²/layer.
  - After the primer is cured, thoroughly sand mechanically until the surface is smooth and remove all dust.
  - Apply a first layer of ProFast Topcoat 80-FS with a usage of 0,10 – 0,30 kg/m²/layer. With some colours, a second layer may be necessary.

Hotspray Surfaces

Can be used as a topcoating on hotspray systems with a shore A hardness >80 approx. 5.

- Floors and walls
  - Apply a first layer of ProFast Topcoat 80-FS with a usage of 0,10 – 0,30 kg/m²/layer. With some colours, a second layer may be necessary.

Wooden surfaces

The surface must be dry, clean and free of grease.

- Apply a layer ProFast Primer RW with a usage of 0,10 – 0,15 kg/m²/layer.
- After the primer is cured, thoroughly sand mechanically until the surface is smooth and remove all dust.
- Apply a first layer of ProFast Topcoat 80-FS with a usage of 0,15 – 0,30 kg/m²/layer. With some colours, a second layer may be necessary.

Metal surfaces

The following applies in general. The surface must be free of substances which may have a negative effect on adhesion, such as oils and fats.

- Steel, sanded
  - Thoroughly sand mechanically until the surface is matt and remove all dust.
  - Pre-treat surface with TX Adhesion Promotor
  - Apply a layer ProFast Primer RW with a usage of 0,10 – 0,15 kg/m²/layer. Prevent from puddles.

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

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- Apply a first layer of ProFast Topcoat 80-FS with a usage of 0,15 – 0,30 kg/m²/layer. Prevent from puddles. With some colours, a second layer may be necessary.

- Steel, blasted
  - Surface blasting, Sa 2½, 75 -100 microns, DIN EN ISO 12 944. Then thoroughly remove all dust. Formation of surface rust must be avoided at all times.
  - Pre-treat surface with TX Adhesion Promotor
  - Apply a layer ProFast Primer RW with a usage of 0,10 – 0,15 kg/m²/layer. Prevent from puddles.
  - Apply a first layer of ProFast Topcoat 80-FS with a usage of 0,15 – 0,30 kg/m²/layer. Prevent from puddles. With some colours, a second layer may be necessary.
- Aluminium
  - Thoroughly sand mechanically until the surface is matt and remove all dust.
  - Pre-treat surface with TX Adhesion Promotor
  - Apply a layer ProFast Primer RW with a usage of 0,10 – 0,15 kg/m²/layer. Prevent from puddles.
  - Apply a first layer of ProFast Topcoat 80-FS with a usage of 0,15 – 0,30 kg/m²/layer. Prevent from puddles. With some colours, a second layer may be necessary.
- Stainless steel
  - Surface blasting, Sa 2½, 75 -100 microns, DIN EN ISO 12 944. Then thoroughly remove all dust.
  - Pre-treat surface with TX Adhesion Promotor
  - Apply a layer ProFast Primer RW with a usage of 0,10 – 0,15 kg/m²/layer. Prevent from puddles.
  - Apply a first layer of ProFast Topcoat 80-FS with a usage of 0,15 – 0,30 kg/m²/layer. Prevent from puddles. With some colours, a second layer may be necessary.

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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** *At 1 kg and 20 ºC product.*

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