

ProFast Multi TR

Description and application

Quick-curing, autocatalytic, 2-component, solvent-free, polyurea resin for universal use. ProFast Multi-TR can be applied on mechanical, thermal and chemical loaded surfaces and is particularly suitable as:

- An adhesive layer underneath mortar based on ProFast Multi-TR, making wet-on-wet coating possible in combination with ProFast Multi-TR as primer.
- A transparent seal for mineral surfaces, mortars, trowels and surfaces littered with decochips.
- A quick-curing mortar in combination with Roca Mortarmix 703, in a ratio of 1:8 to 1:12 (depending on the desired application and processing).
- A quick-curing trowel resin, in combination with (coloured) quartz materials 1:6.
- A quick-curing, self-levelling screed, in combination with coloured quartz materials 1:4.
- A primer and/or screed and as a first wet-on-wet coat for trowelled and pour-trowelled surfaces and repair mortars.

Article number and packaging

14045-5	5 kg set
14045-10	10 kg set

Properties

- Highly versatile
- Extremely fast curing
- Completely solvent-free
- Resistant against plasticisers and hot strips
- Highly resistant against various chemicals
- Fully UV-proof and will not turn yellow

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

Under no circumstances should an epoxy primer be used in case of longer thermal loads due to the softening point. It is then preferable to use ProFast Multi-TR as a primer.

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	Transparent
Finish	Gloss
Density	1,05 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	Depending on the application area.		
Usage	As primer	0,15 – 0,25 kg/m ² /layer	
	As mortar	2,20 kg/m ² /mm	
	As coating	0,15 – 0,30 kg/m ² /layer	
Mixing ratio	650 gram A : 350 gram B		
Potlife**	At 15 °C	approx. 90 minutes	
	At 20 °C	approx. 40 minutes	
	At 25 °C	approx. 30 minutes	
Processing temp.	Object	+0 and +30 °C	
	Product	+10 and +25 °C	
Walkable	At -10 °C	After 10 hours	
	At 0 °C	After 7 hours	
	At 10 °C	After 5 hours	
	At 20 °C	After 4 hours	
	At 25 °C	After 3,5 hours	
Recoat time	At -10 °C	Min. 2,5 hours	Max. 96 hours
	At 0 °C	Min. 2 hours	Max. 96 hours
	At 10 °C	Min. 1,5 hours	Max. 96 hours
	At 20 °C	Min. 1 hours	Max. 72 hours
	At 25 °C	Min. 1 hours	Max. 48 hours
Chemical resistant*	After 7 x 24 hours		
Mechanical resistant*	After 3 x 24 hours		
Dilution	ProFast thinner (odour-free). 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)		

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 0,15 kg/m²/layer.

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



Tel. +31 (0)85 78 200 20 • Fax. +31 (0)85 78 200 21
www.prokol.com • info@prokol.com

Liquid synthetic materials for a sustainable future

ProFast Multi TR

Mixing instructions

2-component products must always be mechanically mixed, preferably with a continuously adjustable mixing machine/drill (300 – 400 RPM) or another suitable mixer/whisk. As a guideline, the diameter of the mixer/whisk must be at least 1/3 of the diameter of the container in which the product is mixed in.

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.

Mortar based on ProFast Multi-TR

When preparing mortar, pour all of the mixed material into the tub of a forced action mixer. Now slowly, evenly and while turning, add the dry filler in question, until it is a homogeneous mass. Additives must be fully dry. When mixing, make sure that all fillers sitting along the sides and bottom are mixed in as well.

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

In order to achieve a fluid-tight surface, mortar based on this resin must be sealed with ProFast Multi-TR. Usage depends on the compression ratio of the polyurea mortar.

Notes during application

2-component products may only be applied when the relative humidity is less than 85%. The minimum surface temperature is 0° 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.

Higher and lower temperatures and the humidity have an influence on the curing time and the potlife of the product.

When the product is processed by roll application or is processed at lower temperatures, we advise you to dilute the product, after mixing, to a maximum of 5% with ProFast TH-S.

Any additives used in the product must be fully dry.

Surface and circumstances

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.

The surface must be clean and free of grease. All loose components must be removed. Concrete flooring must be at least 28 days old. Any cement skin must be removed. Monolithic floors must be sanded and any dust must be removed.

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

Moisture content surface

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

Be aware! The surface must be absorbent in nature and be able to absorb the primer.

ProFast Multi-TR may not be applied to fresh so-called green concrete and is not suitable for anhydrite floors.

For heavily loaded systems it is recommended to partly scatter the primer layer using fire-dried quartz sand 0,4 – 0,8 mm. **Be aware!** Scatter conservatively, there should be no dense granular structure.

An added advantage of partially covering it in sand is that a polyurea mortar will not start to "slide" on the surface when being applied.

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

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.

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



Tel. +31 (0)85 78 200 20 • Fax. +31 (0)85 78 200 21
www.prokol.com • info@prokol.com

Liquid synthetic materials for a sustainable future

ProFast Multi TR

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.

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



Tel. +31 (0)85 78 200 20 • Fax. +31 (0)85 78 200 21
www.prokol.com • info@prokol.com

Liquid synthetic materials for a sustainable future