

ProFast Multi-TR

Description and application

Fast drying 2-component solvent-free polyurea resin for universal use. ProFast Multi-TR can be applied on mechanically, thermally and chemically loaded surfaces.

ProFast Multi-TR is particularly suitable:

- as an adhesive layer underneath mortar based on ProFast Multi-TR, making wet-on-wet painting possible in combination with ProFast Multi-TR as primer.
- as a transparent seal for mineral, mortar, trowelled and colored flake surfaces.
- as a fast drying mortar in combination with Roca Mortelmix 703, in a ratio of 1:8 to 1:12, depending on the desired application and processing.
- as a fast drying trowel resin, in combination with (coloured) quartz materials 1:6.
- as a fast drying self-levelling screed, in combination with coloured quartz materials 1:4.
- Can also be used as a primer and/or first coat, and as a first wet-on-wet coat for trowelled and pour-trowelled surfaces and repair mortar.

Consult the instructions further on in this product sheet.

Product number and packaging

| | |
|----------|--------------|
| 14045-5 | in 5 kg set |
| 14045-10 | in 10 kg set |
| 14045-20 | in 20 kg set |

Properties

- Highly versatile.
- Extremely fast drying.
- Entirely 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 N/mm²
- Moist mineral surfaces > 2.2 N/mm²

Thermal

| Load | Dry heat |
|-----------------------|----------|
| Permanent | +80°C |
| Short (7 days max.) | +100°C |
| Short (12 hours max.) | +120°C |

In the event of long-term thermal loads, no epoxy primer should be used, due to the softening point. We recommend using ProFast Multi-TR as a primer.

Brief humid heat up to a maximum of 80°C and occasional exposure to, e.g., steam-cleaning is permitted. No simultaneous chemical and mechanical load.

Liquid product properties

| | |
|-------------------------|---|
| Colour | A component transparent |
| | B component transparent |
| Density | 1.05 mixed product |
| Solid substance content | 100% |
| Shelf life | If kept cool in unopened packaging and when protected against frost, its shelf life is at least 12 months from the production date. |

Application information

| | | | |
|------------------------|--|--------------------------------|--------------------------|
| Method | Depending on application. | | |
| Usage | As primer | 0.15 – 0.25 kg /m ² | |
| | As mortar | 2.20 kg /m ² /mm | |
| | As coating | 0.15 – 0.30 kg /m ² | |
| Mixing ratio | 650 grams base: 350 grams hardener | | |
| Dilution | ProFast Dilution (odour-free). Maximum 5%. Add after A and B have been thoroughly mixed. Adding a thinner will affect the drying time. | | |
| | Processing time after mixing** | At 15°C | approximately 90 minutes |
| | | At 20°C | approximately 40 minutes |
| | | At 25°C | approximately 30 minutes |
| Processing temperature | Object | +0°C and +30°C | |
| | Product | +10°C 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 | |
| Recoatable* | 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 hour | Max. 72 hours |
| | At 25°C | Min. 1 hour | Max. 48 hours |

The times are indicative and affected by changing ambient conditions such as temperature and relative humidity. Values are at 0.15 /kg /m² RH 65%.

| | |
|-----------------------|----------------------------|
| Chemical resistance | 2 x 24 hours at 20°C* |
| Mechanically loadable | 2 to 3 hours at 20°C* |
| Cleaning agent | Roca Cleaner R5518 (tools) |

* At 20°C and 65% RH surface.

** For 1 kg and 20°C product.

*** After 7 days of curing at 20°C



Tel. +1 (407) 567-7860
www.prokolusa.com info@prokolusa.com

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Mixing instructions

2-component products must always be mixed mechanically and preferably with a slow-turning infinitely variable mixing machine at 300 rpm max. Use a suitable mixer or whisk that matches the diameter. As a guideline, the diameter of the mixer or whisk must be at least 1/3 of that of the container in which the product is mixed.

First mix the corresponding base component and hardener in a separate mixing bucket. Pour part of the mixed material back into the hardener tin and continue to mix in the hardener tin, until all the hardener is used. Subsequently pour this mixture back in the base tin and mix again until a homogeneous mass is obtained.

Mortar based on ProFast Multi-TR

When preparing mortar, pour all the mixed material into the bowl of a forced action mixer. Now slowly, evenly, and while turning, add the dry filler in question, until you have a homogeneous mass. Additives must be absolutely dry. Moisture will act as a catalyst. When mixing, make sure that filler adhering to the sides and bottom are mixed in as well.

When preparing portions, both components must be carefully stirred and weighed.

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.

Remarks concerning application

This 2-component product must only be applied at a relative humidity below 85%.

The minimum product and surface temperature must be -10°C minimum, whereby the temperature of the surface to be treated and of the material prior to curing must be at least 3° above dew point. Please consult the dew point table.

Higher and lower temperatures as well as humidity affect the curing time and shelf life of the product.

If the product is processed via roller application or applied at lower temperatures, we recommend that, after mixing it's allowed dilute the product with ProFast TH-S up to a maximum of 5%.

Warning! An excess of residual material in packaging may cause an exothermal reaction, leading to smoke and strong odours. Prevent an excess of residual material, or mix it with plenty of sand. Always store empty packaging in a properly ventilated room.

Additives must be absolutely dry. Moisture will act as an accelerator.

* At 20°C and 65% RH surface.

** For 1 kg and 20°C product.

*** After 7 days of curing at 20°C

Surface

The surface must be healthy and of sufficient compressive strength (minimum 25 N/mm^2), with a minimum bonding strength of 1.5 N/mm^2 .

The surface must be clean, dry and grease-free and all loose material must be removed. The surface must be absorbent.

Cement bound surfaces must be at least 28 days old. Concrete laitance must be removed. Dustless blasting must be used for monolithically finished floors and all dust must be removed. Floors must be free from rising damp.

Not suitable for anhydrite floors.

Moisture level surface : $< 10\%$ (parts by weight)

Note! The surface must be able to absorb the primer.

ProFast Multi-TR should **not** be applied on fresh so-called green concrete.

For heavily loaded systems, we recommend partially or lightly covering the primer coat in fire-dried quartz sand $0.4 - 0.8 \text{ mm}$. Note! Do not apply a thick layer, the granular structure should remain open.

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

For detailed information on surface pre-treatment, see the "Pre-treatment of surfaces" information sheet.

Important

Projects and applications can vary widely. If you are unsure about a specific application, choice of material or surface preparation, please contact your supplier at all times.

All technical data contained in this Data Sheet is based on laboratory tests. Data may vary, 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.



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www.prokolusa.com info@prokolusa.com

Liquid synthetic materials for a sustainable future

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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. A login name and password are required to gain access.

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

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