

# ProFast Casting Resin TR

## Description and application

ProFast Casting Resin TR is a 2-component, cold-setting, casting resin. The compound is based on light stable hybrid polyurea chemistry. The low viscosity makes mixing and casting very easy. The product is free from plasticizers and solvents.

- Casting high quality translucent films as a protective layer on many metals, wood and synthetics.
- As a protective layer on "photo print" flooring.
- To cast fully translucent moulds.
- Encapsulation resin for many products.
- Binder for colour quartz flooring used outdoors.
- Binder for rubber granulate.

## Article number and packaging

14080-2	2,5 kg set
14080-5	5 kg set
14080-10	10 kg set

## Properties

- De-foaming properties are optimized and therefore it's easy to cast highly transparent films and mouldings. Moisture and air do not need to be removed by vacuum
- Adhesion is possible on most surfaces without using primers
- ProFast Casting Resin TR is highly wear and scratch resistant
- It's possible to add special colourants to achieve special translucent or fully opaque effects

Elongation	65% (DIN 53504)
Tensile strength	± 7 MPa (DIN 53504)
Shore hardness	A80 ± 5 (DIN 53505)
Wear resistance taber	85 mg 1000 cycles, 1000 g load, H18 (ISO 5470-1*)
Abrasion-resistant	>30N (DIN 56656**)

\* Bisphenol AF epoxy / cyclo aliphatic hardener 630 mg,  
castor Oil / polymeric hardener 450 mg

\*\* bisphenol AF epoxy/ cyclo aliphatic hardener <2 ,  
castor oil/ polymeric hardener <2

## Properties liquid product

Colour	Transparent
Exposure air/oxygen	Irreversible yellowing of the base component can occur when the liquid base component has been exposed to air/oxygen for longer time or many times.
Density	1,11 kg/l mixed product
Volume solids	>96%
Shelf life	At least 12 months after the date of production, if stored dry in unopened packaging.

## Application information

Method	Casting, trowel, squeegee, roller or brush
Usage	0,10 – 1,5 kg/m <sup>2</sup> /layer <i>Surface dependent</i>
Mixing ratio	490 gram A : 510 gram B
Potlife**	45 minutes (Gel timer TC apparatus)
Reactivity	Double start viscosity 20 minutes Triple start viscosity 35 minutes (Kinexcus Pro+ Rheometer, proprietary protocol).
Dilution	Not permitted

## All values determined @ 23 degrees Celsius

## 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.

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



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## Surface and circumstances

Moisture content surface

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

## 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](http://www.prokol.com).

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

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