

RECEPOX CRYSTAL 100

Product description

RECEPOX CRYSTAL 100 is a two-component epoxy resin, designed mainly for casting aesthetic and decorative objects (cast resin tables, furniture, decorative objects, etc.). Thanks to its prolonged curing time and excellent grinding and polishing ability, it is possible to achieve results beyond competitive.

Application

RECEPOX CRYSTAL 100 is usable in conjunction with multiple flooring systems for a wide variety of applications:

- Sealing objects in casting resin
- Casting objects in up to 100 mm layer of resin

Product benefits

- High mechanical resistance to static and dynamic stress
- Great flow characteristics
- Great adhesion to most substrates
- Optimum workability/processing time
- Possible to pigment with a large scale of suitable pigments
- Almost no heat generated in bulk while curing
- High UV resistance

Product properties

Bulk density: ~ 1 100 kg/m³

Dry matter content by weight: ~ 100 %

Dry matter content by volume: ~ 100 %

Hardness D-Shore: 70 (DIN ISO 7609-1)

Tensile strength: 35,92 MPa

(ČSN EN 196-1)

Compressive strength: 53,90 MPa

(ČSN EN 13892-2)

Tensile adhesion: > 1,5 N/mm²

(ČSN 74 4505)

Workability*: ~ more than 4 h

Curing time:

- min. 48 h before next layer application
- min. 7 days before grinding/sanding

Dynamic viscosity (A+B): ~ 270 mPa·s

(ISO 3219)

Application conditions:

Ambient air temperature: 20-25 °C

Substrate temperature: 20-25 °C

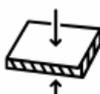
Substrate residual moisture: < 4 %

Ambient air humidity: < 60 %

* 500 g sample at 22 °C



Zalévací
pryskyčice



Tloušťka
do 25 mm



Lesklý
povrch



VOC
FREE

Packaging

RECEPOX CRYSTAL 100 is supplied in pre-measured containers containing component A (resin) and component B (hardener). It is supplied in 5 different package sizes. For a large order quantity the packaging can be tuned to the customer's necessities.

	Smallest packaging	Small packaging	Medium packaging	Large packaging	Largest packaging
Component A [kg]	0,42	0,71	1,98	4,94	9,88
Component B [kg]	0,18	0,29	0,82	2,06	4,12
Component A+B [kg]	0,60	1,00	2,80	7,00	14,00

The supplied packaging of components A and B ensures the correct mixing ratio for both components. Do not split the components; the units are designed to be mixed completely.

Material properties

All technical data in the product's technical data sheet are based on laboratory tests. Values may vary depending on ambient conditions, which are beyond our control.

Heat resistance

Load*	Dry heat
Permanent	+ 50 °C
Short-time max. 7 days	+ 80 °C
Short-time max. 12 hours	+ 100 °C

*without simultaneous chemical and mechanical loading

Color

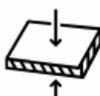
RECEPOX CRYSTAL 100 is clear after curing. Component A is a transparent fluid. Component B is a transparent fluid. It is possible to pigment RECEPOX CRYSTAL 100 using suitable pigments. Always verify pigment suitability on a small-scale sample.

Storage conditions

Store components A and B in a dry place at temperatures between 15 °C and 30 °C. Protect from direct sunlight, excessive heat, and frost. When stored in unopened original containers, the product has a shelf life of 2 years from the date of manufacture stated on the label.



Zalévací pryskyčice



Tloušťka do 25 mm



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Substrate preparation

The material should be applied to a clean dry surface free of all impurities, such as dust, grease, paint, waxes etc. The objects to be casted must be cured with a suitable epoxy resin, or directly coated with RECEPOX CRYSTAL 100, to prevent trapped air from being released and causing bubbles within the resin. Take special care when working with porous materials, such as wood etc.

Mixing

RECEPOX CRYSTAL 100 is supplied in appropriate quantities of component A and component B. These two components are to be mixed in their entirety. If it is necessary to mix a smaller quantity, component A is mixed with component B in a ratio of 2,4:1. In this case Recetex waives any responsibility for potential defects in the material. Mixing must be carried out mechanically, using a high-performance slow-speed drill/mixer with a suitable mixing attachment. Mixing must be carried out at a speed of 400-600 rpm for a minimum of 5 minutes, or until all fibrous phase is homogenized. Mixing must be carried out until complete homogenization of the components, especially in the area around the bottom of the container. Avoid entrapping air in the mix, which can cause milkiness and white haze in the mixture.

Application

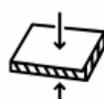
The material must be applied at 20-25 °C, with an ambient relative humidity of maximum 60 % on a pre-treated surface. Adapt the workflow to the actual conditions at the application site. RECEPOX CRYSTAL 100 must cure for at least 48 hours before the next layer is applied, and at least 7 days before any succeeding technological operation (grinding, sanding, polishing). When applying RECEPOX CRYSTAL 100, do not exceed 100 mm layer and a consumption of 3 liters of the material, as this may cause hazing, cracking, contraction and/or thermal yellowing of the resin.

Recommendation

Apply only in a dry environment at recommended application conditions, and do not apply on excessively porous substrates. Avoid direct skin contact and do not inhale fumes/mist/aerosol/etc. When working with RECEPOX CRYSTAL 100 always use personal protection equipment specified on the manufacturing label or in the safety data sheet. Avoid leakage of the material into the environment and handle packaging in accordance with environmental regulations.



Zalévací
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Tloušťka
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Notes

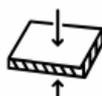
- If you have questions about the material's resistance to a specific chemical, please contact our technical support via www.recetex.com
- The safety data sheet is available on request via www.recetex.com
- Technical support is available for telephone consultation regarding specific customer requirements, including telephone application support.

LEGAL ANNEX

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