

# RECEPOX BASE UV

## Product description

RECEPOX BASE UV is a two-component epoxy resin designed for application mainly in epoxy polymer-mortar (wearing layer, achieved by mixing resin and sand). The material mixture with sand is used to increase the load resistance of the flooring system and for possible levelling of surface irregularities. Due to its improved UV stability, RECEPOX BASE UV can be combined with coloured sands and transparent coatings from RECEPOX SEALER series.

## Application

RECEPOX BASE UV can be used in a variety of flooring systems for a wide range of applications:

- Suitable for design polymer-mortars
- Suitable for uncoated flooring systems
- Suitable for stone carpets

## Product benefits

- Excellent mechanical resistance
- Improved chemical resistance
- Improved UV resistance
- Effortless application
- Excellent adhesion to most substrate
- Compatible with all RECEPOX products
- Optimal processing time/workability
- Improved thermal resistance

## Material properties

Volumetric weight:

Resin: ~ 1 200 kg/m<sup>3</sup>

Polymer-mortar\*: ~ 2 000 kg/m<sup>3</sup>

Dry matter content by weight: ~ 100%

Dry matter content by volume: ~ 100%

Hardness D-Shore: 75

Compressive strength\*: 65,08 MPa

(ČSN EN 196-1)

Flexural strength \*: 17,60 MPa

(ČSN EN 196-1)

Tensile adhesion: > 1,5 N/mm<sup>2</sup>

(ČSN 74 4505)

Consumption\*:

- 3 mm layer – 6 kg of mixture
- 4 mm layer – 8 kg of mixture
- 5 mm layer – 10 kg of mixture

Workability\*\* : 41 min.

HDT after 7 days: 43,0 °C (ČSN EN ISO 75-1)

Curing time: minimum 24 hours

Dynamic viscosity (AB)\*\*\*: ~ 678 mPa.s

### Application conditions:

Ambient air temperature: 15-25 °C

Substrate temperature: 15-25 °C

Substrate moisture content: < 4%

Ambient relative humidity: < 60 %

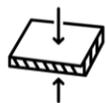
\* When mixed 1:5 with 0,3-1,8 mm sand

\*\* 200 g sample at 22 °C

\*\*\* Anton Paar method, spindle 3, at 22 °C



Plastering application



Thickness 3 - 5 mm



Consumption 6-10 kg/m<sup>2</sup>



VOC FREE



Solvent FREE

## Packaging

RECEPOX BASE UV is supplied in pre-measured containers containing component A (resin) and component B (hardener).

Component A [kg]	18,89
Component B [kg]	11,11
Component A+B [kg]	30

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

Thermal stress*	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

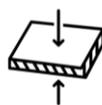
After curing, RECEPOX BASE UV is clear with a slight brown tone. The colors of the components may vary individually. Component A is a transparent liquid. Component B is a transparent liquid.

## 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.



Plastering application



Thickness  
3 - 5 mm



Consumption  
6-10 kg/m<sup>2</sup>



VOC  
FREE



Solvent  
FREE

## Surface preparation

The material should be applied to a surface free of most impurities, such as dust, grease, paint, waxes etc. The surface must be free of any moisture rising from below (ground water etc.) In case of dirty or damp substrate, it is recommended to use a product designed for this purpose, namely RECEPOX PRIMER WO or RECEPOX PRIMER WO TX.

## Mixing

RECEPOX BASE UV 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 1,7:1. 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 2 minutes. When preparing the mortar, RECEPOX BASE UV can be mixed with sand in different ratios according to the customer's preference.

## Application

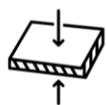
The material must be applied at 15-25 °C, with an ambient relative humidity of maximum 60 % on a pre-treated surface. The material must be applied as soon as possible after mixing. After a longer period of time, due to the large volume of the material, a rapid increase in viscosity and temperature occurs, which makes it impossible to pour and process the material. Adapt the workflow to the actual conditions at the application site. RECEPOX BASE UV must cure for at least 24 hours before the next layer is applied, however, longer curing time may reduce the adhesion of the next layer. After 7 days the material is fully cured and able to carry the full load.

## Recommendation

Apply only in a dry environment at recommended application conditions. Avoid direct contact of the material with the skin and do not inhale fumes. When working with RECEPOX BASE UV always use the safety equipment specified on the manufacturing label or safety data sheet. Avoid leakage of material into the environment and handle packaging in accordance with environmental regulations.



Plastering  
application



Thickness  
3 - 5 mm



Consumption  
6-10 kg/m<sup>2</sup>



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Solvent  
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## Notes

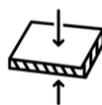
- If you have questions about the material's resistance to a specific chemical, please contact our technical support via [www.recetex.com](http://www.recetex.com)
- The safety data sheet is available on request via [www.recetex.com](http://www.recetex.com)
- Technical support is available for telephone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

## LEGAL ANNEX

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Plastering  
application



Thickness  
3 - 5 mm



Consumption  
6-10 kg/m<sup>2</sup>



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