

# NEUKADUR EN 1112

Epoxy Resin

Preliminary datasheet

# altropol

## Main features

- very low viscosity
- air bubble free
- no odor
- mixing ratio 2:1
- BPA free
- fast curing
- UV-stabilized

## Applications

- adhesive
- universal resin
- multipurpose resin
- artistic / decorative applications
- casting resin
- layer thickness up to 1 cm<sup>(1)</sup>

## Properties in the non-crosslinked state (approx. values)

|                   |                   | NEUKADUR EN 1112 | NEUKADUR hardener 327 |
|-------------------|-------------------|------------------|-----------------------|
| Colour            |                   | transparent      | clear                 |
| Mixing ratio      | p.b.w.            | 100              | 50                    |
| Density (20 °C)   | g/cm <sup>3</sup> | 1.1              | 0.95                  |
| Viscosity (25 °C) | mPa·s             | 1,500            | 100                   |

## Properties of the mixture (approx. values)

|   |                   |                         |         |
|---|-------------------|-------------------------|---------|
| Mixed viscosity (25 °C)                     | mPa·s             |                         | 200     |
| Pot life (20°C, 100 g)                      | minutes           |                         | 45      |
| Density                                     | g/cm <sup>3</sup> | DIN 53479               | 1.1     |
| Curing time depending on layer thickness    | hours             |                         | 16 – 24 |
| Hardness at layer thickness 1 cm            | Shore D           | DIN 53505               | 80      |
| Tensile strength                            | MPa               | DIN 53455               | 45      |
| Flexural strength                           | MPa               | DIN 53452               | 80      |
| Compressive strength                        | MPa               | DIN ISO 604             | 80      |
| Glass transition temperature T <sub>g</sub> | °C                | DSC 204 F1<br>DIN 51005 | *       |

\*in progress

## How to process the material

Mix resin and hardener in the indicated mixing ratio until the compound is homogeneous and process the same at temperatures between 20 °C and 30 °C.

The pot life depends on the temperature and is at 20 °C and a batch size of 100 g with hardener 327 approx. 1 hour.

For coloring NEUKADUR EN 1112 we recommend the AltroColor EP 2000 series. [www.altrocolor.de](http://www.altrocolor.de)

For release agents, please visit our homepage under <http://www.altropol.de/en/produkte/weitere-produkte/trennmittel>

## Form of delivery

NEUKADUR EN 1112

on request

NEUKADUR hardener 327

on request

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## **Storage**

We recommend keeping the material in tightly closed original receptacles at temperatures of 20 - 25 °C. When duly stored, the material can be used within the shelf life indicated on the labels (the first 2 digits of the batch number indicate the week, the 3rd digit indicates the year).

## **Measure of precaution**

With the aid of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, the user can inform himself on the safe handling and storage of the products.

<sup>(1)</sup>The coating thickness depends on various factors, e.g. geometry of the mold, type of mold, ambient temperature, etc. Therefore, it is recommended to work at room temperature if possible. In some cases, it is recommended to apply the product in layers for thick layers.

Our technical service - in words, in writing or by trials - is given according to the current state of our knowledge. It does however not relieve the customer / user from the duty to check by himself if the products supplied by us are suitable for the intended processes and purposes. Application, use and processing of the products take place beyond our control possibilities and lie therefore exclusively in the area of responsibility of the processor. Any existing property rights of third parties are to be considered. We guarantee the perfect quality of our products in accordance with our general terms and conditions of business. When handling our products you have to observe the legal rules and the rules for the industrial hygiene. As for the rest, we refer to the corresponding safety data sheets.

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