

## RECKLI<sup>®</sup> PUR-Elastomer A45

castable polyurethane elastomer, soft grade

RECKLI PUR-  
Elastomer A40

Product 03712  
Edition 01/23

### PROPERTIES

RECKLI PUR-Elastomer A45 is a solvent-free, rubbery-elastic, liquid, two-component polyurethane, cold-curing, almost shrinkage-free, after curing sliceable and grindable. It shows high chemical resistance against aqueous alkali, especially concrete.

### APPLICATIONS

RECKLI PUR-Elastomer A45 is used for manufacturing flexible models, fittings, formliners and moulds ensuring exact reproduction of surface contours and textures even in cases of undercuts or higher structure depth. Easy stripping of castings is enabled by using suitable RECKLI release agents. RECKLI PUR-Elastomer A45 is particularly suitable for making durable formliners for the manufacture of structured exposed concrete.

### TECHNICAL DATA

| property                                    | value                            | method                |
|---|----------------------------------|-----------------------|
| hardener:                                   | for PUR-Elastomer A45, A60, SR30 |                       |
| mixing ratio (base : hardener):             | 9 : 1                            | (according to weight) |
| workable temperature:                       | +15 °C – +30 °C                  |                       |
| viscosity of base component:                | 2500 mPa·s                       | ISO 2555              |
| pot life (200-g-mixture at +21 °C):         | 15 – 20 min                      |                       |
| earliest demoulding (at +21 °C):            | 24 h                             |                       |
| full chemical and mechanical loading after: | 7 – 10 days                      |                       |
| density:                                    | 1,30 g/cm <sup>3</sup>           |                       |
| hardness:                                   | 45 Shore A                       | DIN 53505             |
| tensile strength:                           | 3,1 N/mm <sup>2</sup>            | DIN 53504-S2          |
| elongation at break:                        | 650 %                            | DIN 53504-S2          |
| tear resistance:                            | 11 N/mm                          | ASTM D 624-B          |
| heat resistance (dry heat):                 | +65 °C                           |                       |
| heat resistance (under concrete):           | +60 °C                           |                       |
| linear shrinkage:                           | 0,1 – 0,2 %                      |                       |
| colour:                                     | grey                             |                       |

These data are typical guide values. They are not destined for the generation of specifications.

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## SURFACE PREPARATION

The model surface must be dry and clean. Absorbing surfaces should be sealed to facilitate the subsequent demoulding and to avoid inaccurate curing. For this, RECKLI PUR-Sealant can be used if the surface is solvent-resistant. Otherwise, especially if the surface has to be recovered in the original state, RECKLI Si-Stripping Lacquer can be applied and removed with water along with all residues after completing the moulding works. Afterwards, 2 – 3 layers of RECKLI Mould Wax are applied. Each layer has to dry completely.

When applying several layers of elastomer, the preceding layer should be still slightly sticky but sufficiently cured to bear the load of the following application. If the surface is completely cured, it must be roughened by grinding before further material can be applied.

## PROCESSING

Each contact with moisture must strictly be avoided. Before processing, the base component has to be stirred up thoroughly. Add the hardener (B) to the base component (A) and mix them homogeneously. Transfer the mixture into a second receptacle and stir it up again. Thereby the incorporation of larger amounts of air should be avoided. Once mixed the processing of the material must be completed within the pot life (15 – 20 minutes). The shortest demoulding time is 24 hours.

## METHOD OF PROCESSING

Full cast or front cast.

## CLEANING OF EQUIPMENT

For the cleaning of the tools and the equipment, use dry, absorbing cloths, if necessary RECKLI Epoxy Cleanser in addition. Immersion in solvents is not sufficient.

## SPECIAL REMARKS

To ensure dimensional accuracy and maximum life period, moulds made of RECKLI PUR-Elastomer A45 are preferably stored in their supporting mould under admittance of air. Prolonged compression may lead to irreversible deformation. The moulds must be protected against UV irradiation and direct insolation.

## PACKAGING SIZES

double drums: 20 kg | 10 kg;

double cans: 1 kg.

The hardener is enclosed in the lid.

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## STORAGE

Store in a dry place at room temperature. RECKLI PUR-Elastomer A45 is storable for 6 months from delivery when kept in the closed original packaging at about 18 °C. Opened drums must be closed airtight right after use.

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## GENERAL INFORMATION

For further information please also see:

„General advice for making moulds and models using RECKLI two-component polyurethanes”.

## SAFETY

Protect skin and eyes from material splashes. Provide sufficient ventilation in the working place. Please consult the relevant safety data sheet and attend to the indications on the label of the package regarding the Dangerous Goods Regulation.

RECKLI PUR-Elastomer A45 exclusively consists of components that are registered according to regulation 1907/2006/EU (REACH) or exempt from registration. It is free from contents according to appendix XIV (SVHC) and mercury compounds.

This pamphlet is intended solely as an application directive. It does not claim to be binding and valid for all modes of application. A preliminary test under operation conditions is highly recommended.

This pamphlet replaces all previously published pamphlets concerning RECKLI PUR-Elastomer A45, stating them as no longer being valid.