

## RECKLI® Si-Compound 26AV

**Silicone moulding material for superior requirements, almost shrinkage-free**

RECKLI Si-Compound 26AV

Product 03226  
Edition 10/16

### PROPERTIES

RECKLI Si-Compound 26AV is a castable two-component silicone rubber with very high tear resistance and elongation at break, cold curing by polyaddition and self-releasing. On mouldings even finest surface contours and textures are reproduced. For the application on a vertical or overhead area, the material can be adjusted pasty with RECKLI Si-Thickener Liquid AV (0,1 – 1,0 %). At elevated temperatures, the curing period is significantly shortened. Moulds out of RECKLI Si-Compound 26AV are storable over long periods without decrease of mechanical properties.

### APPLICATIONS

RECKLI Si-Compound 26AV is used for making highly tearproof, elastic moulds for the manufacture of casts or copies out of gypsum, mortar, concrete, resins or resin formulations. It is particularly suitable for applications demanding very high dimensional accuracy.

#### Attention!

Moulds out of RECKLI two-component silicones are not fully suitable for casting polyester- or PMMA-resins. These applications strictly demand a preliminary test.

### TECHNICAL DATA

| property                            | value                  | method                |
|-------------------------------------|------------------------|-----------------------|
| hardener:                           | for Si-Compound 26AV   |                       |
| colour of base component:           | translucent            |                       |
| colour of hardener                  | translucent            |                       |
| odour                               | odourless              |                       |
| mixing ratio (base : hardener):     | 10 : 1                 | (according to weight) |
| workable temperature:               | +10 °C – +30 °C        |                       |
| viscosity of base component:        | 30000 mPa·s            | ISO 2555              |
| viscosity of mixture:               | 14000 mPa·s            | ISO 2555              |
| pot life (200-g-mixture at +21 °C): | 60 – 90 min            |                       |
| earliest demoulding (at +21 °C):    | 24 h                   |                       |
| specific weight:                    | 1,10 g/cm <sup>3</sup> |                       |
| hardness:                           | 26 Shore A             | DIN 53505             |
| tensile strength:                   | 3,6 N/mm <sup>2</sup>  | DIN 53504-S2          |
| elongation at break:                | 430 %                  | DIN 53504-S2          |
| tear resistance:                    | 20 N/mm                | ASTM D 624-B          |

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heat resistance (dry heat): approx. +160 °C

linear shrinkage: 0,1 – 0,2 %

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 clean. Absorbing surfaces should preferably be sealed to avoid contamination by silicone oil and to ensure the easiness of the subsequent demoulding. 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. Before continuing, the sealant has to dry completely. Further measures are usually unnecessary due to the self-releasing effect. However, certain critical substrates, in particular glass, freshly milled metal or wood as well as silicone itself, must be covered with RECKLI Mould Wax.

## PROCESSING

Before processing, the base component has to be stirred up thoroughly. Add the hardener (B) to the base component (A) and mix them homogenously. 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 (60 – 90 minutes). The shortest demoulding time is 24 hours.

For the application in a thixotropic state add RECKLI Thickener Liquid AV after mixing the base component and the hardener to adjust the required consistency. The recommended dosage is 0,1 – 1,0 % (by weight).

## METHOD OF PROCESSING

Casting, painting or trowelling.

## CLEANING OF EQUIPMENT

For the cleaning of the tools and the equipment, use dry, absorbing cloths, if necessary RECKLI EK-PU Thinner in addition. Immersion in solvents is not sufficient. When cured, the material can be removed from the tools due to the self-releasing effect.

## SPECIAL REMARKS

To ensure dimensional accuracy and maximum life period, moulds made of RECKLI Si-Compound 26AV must be stored under admittance of air on non-absorbent or sealed material, best in their supporting mould. Each contact with other silicone

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products, either within the same or with other moulds as well, must strictly be avoided.

### **Attention!**

RECKLI Si-Compound 26AV can not be used on substrates containing sulphur compounds, heavy-metal compounds or amines (e.g.: rubber, condensation-cured silicone, polyurethanes, various natural materials). Contact with such substrates suppresses (inhibits) the crosslinking reaction. Therefore all materials used for the manufacture or the treatment of the models in question must be selected with all due diligence. If the suitability of the model material is uncertain, a preliminary test is essential.

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## **PACKAGING SIZES**

double drums: 5 kg | double cans: 1 kg.

The hardener is enclosed in the lid.

## **STORAGE**

Store in a dry place at room temperature. RECKLI Si-Compound 26AV 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.

## **GENERAL INFORMATION**

For further information please also see:

“General advice for making moulds and models using RECKLI two-component silicones”.

## **SAFETY**

Protect skin and eyes from material splashes. Please consult the relevant safety data sheet and attend to the indications on the label of the package regarding the Dangerous Goods Regulation. 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 Si-Compound 26AV, stating them as no longer being valid.