

Accelerating agents B 4400 and B 4402

The accelerating agents **B 4400** and **B 4402** shorten the curing time of our polyurethane-based **WEPURAN** casting compounds while they reduce the pot life/processing time by the same token. For this reason, the accelerating agents should preferably be used with mixing and dosing equipment.

The accelerating agent **B 4400** is suitable for being combined with all polyurethane-based **WEPURAN** casting compounds supplied by Lackwerke Peters, except for those listed below which can be accelerated by agent **B 4402** alone:

WEPURAN casting compounds of the series **VT 3402 KK** (in this case no yellowing of the highly transparent, crystal-clear casting compounds will occur).

WEPURAN casting compound **VU 4444/31 SB-WB** and **VU 4494/31 SB-WB**.

The casting compounds of the series **Wepuran VU 4452** can be processed with both accelerating agents. It should be noted, however, that **B 4402** accelerates even more than **B 4400**.

Characteristics

	B 4400	B 4402
Colour/ appearance	clear, colourless to slightly yellowish	
Refractive index at 20 °C [68 °F], DIN 51423	1.502 ± 0.002	1.485 ± 0.002
Density at 20 °C [68 °F], DIN EN ISO 2811-1	0.90 ± 0.05 g/cm³	0.98 ± 0.05 g/cm³

Processing



Please read this technical report and the publications listed below carefully before using the product. These sheets are enclosed with the first shipment of product or sample.

MSDS

The corresponding material safety data sheet contains detailed information and characteristics on safety precautions, environmental protection, transport, storage, handling and waste disposal.

TI

[Technical information TI 15/2](#) "Selection criteria and processing instructions for casting compounds"

TI

[Technical information TI 15/3](#) "Protective measures when using chemicals including lacquers, casting compounds, thinners, cleaning agents"

TI

[Technical information TI 15/10](#) "Processing of 2-pack systems"

Safety recommendations

- When using chemicals, the common precautions should be carefully noted.
- Ensure that extractor units of workplace ventilation arrangements are positioned at solvent source level.
- When processing **B 4400**, please also pay attention to national guidelines or directives concerning operating safety such as the German TRBS (technical rules for operating safety) and those concerning the handling of flammable liquids or European directives.

Depending on the quantity added there may be a strong to very strong increase of temperature while curing, implying the risk of burns or the melting of plastic containers.

- **Use sufficiently heat-resistant containers such as metal containers.**

Moisture in the potting/on the substrate generally causes bubbles in the potting of polyurethane-based casting compounds. This reaction, too, is even stronger when an accelerating agent is used, in such a way that an extreme formation of bubbles may result.

Mixing

Before processing the casting compound, the accelerating agent has to be stirred into component A; please pay attention to an even mixing. Then add the hardener (component B).

The quantity to be added must be determined in pretrials. The common quantities mentioned below are relative to the quantity of component A:

- **B 4400:** 0.2 to max. 1 %
- **B 4402:** max. 0.5%

Should these quantities be exceeded, experience has shown that the pot life is shortened drastically and the curing temperature will increase distinctly. The pot life will also depend on the temperature, the quantity of casting compound prepared and the layout of the component to be embedded.

Due to the reaction with other ingredients of the casting compound, the reaction rate may be higher after accelerating agent **B 4400** has been mixed into component A and this mixture has been stored for some time.

- For this reason, prepare just the quantity that is to be processed the same day, or check the reaction rate if the mixture was stored.

Packaging

The packing units available are indicated in our offer which we will send you upon request.

Shelf life and storage conditions



Shelf life: In sealed original containers at least 12 months



Storage conditions: +5 °C to +25 °C [+41 °F to +77 °F]

For warehousing reasons, isolated cases may occur where the shelf life upon shipment is less than the shelf life indicated in this technical report. However, it is ensured that our products have **at least** two-thirds of their shelf life remaining when they leave our company. Labels on containers show shelf life and storage conditions.

Disclaimer

All descriptions and images of our goods and products contained in our technical literature, catalogues, flyers, circular letters, advertisements, price lists, websites, data sheets and brochures, and in particular the information given in this literature are non-binding unless expressly stated otherwise in the Agreement. This shall also include the property rights of third parties if applicable.

The products are exclusively intended for the applications indicated in the corresponding technical data sheets. The advisory service does not exempt you from performing your own assessments, in particular as regards their suitability for the applications intended. The application, use and processing of our products and of the products manufactured by you based on the advice given by our Application Technology Department are beyond our control and thus entirely your responsibility. The sale of our products is effected in accordance with our current terms of sale and delivery. Any questions? We would be pleased to offer you advice and assistance in solving your problems. Samples and technical literature are available upon request.

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