

Basis **Versatile fast casting resin system**  
 Resin **SG 700 A Comp. A**  
 Hardener **PUR 5 Comp. B**

Colour blue  
 Further colours black / white / red / green

### Applications

- Foundry patterns
- Core boxes
- Jigs
- Negatives
- Control castings
- Prototypes

### Properties

- abrasion resistant
- well castable
- fine structure
- dimensionally accurate
- fast curing
- versatile

### Processing data

| Product               |                     | Mixture<br>SG 700 A / PUR 5 | Resin<br>SG 700 A Comp. A | Hardener<br>PUR 5 Comp. B |
|-----------------------|---------------------|-----------------------------|---------------------------|---------------------------|
| Colour                |                     | blue                        | blue                      | brown                     |
| <b>Mixing ratio</b>   | <b>p. b. w.</b>     |                             | <b>100</b>                | <b>15</b>                 |
| Viscosity at 25°C     | mPas                | 1800 ± 350                  | 5000 ± 1000               | 20 ± 5                    |
| Density at 20°C       | g / cm <sup>3</sup> | 1,75 ± 0,05                 | 1,80 ± 0,05               | 1,21 ± 0,02               |
| Pot life 200 g / 20°C | min.                | 5 - 7                       | -                         | -                         |
| Curing time at RT     | hrs.                | 1 - 2                       | -                         | -                         |

### Physical data

| Properties                      | Inspect. requirem. | Unit                             | Value      |
|---------------------------------|--------------------|----------------------------------|------------|
| Flexural strength               | EN ISO 178         | MPa                              | 43 ± 5     |
| Flexural modulus                | EN ISO 178         | MPa                              | 4470 ± 450 |
| Flexural strength at breakage   | EN ISO 178         | %                                | 1,4 ± 0,15 |
| Compressive strength            | EN ISO 604         | MPa                              | 53 ± 5     |
| Impact resistance (Charpy)      | EN ISO 179         | kJ/m <sup>2</sup>                | 4,7 ± 1    |
| Heat resistance (Martens)       | DIN 53458          | °C                               | 49 ± 2     |
| Shore hardness                  | DIN 53505          | Shore D                          | 83 ± 3     |
| Coefficient of linear expansion | DIN 53752          | 10 <sup>-6</sup> K <sup>-1</sup> | -          |
| Linear shrinkage                | internal           | %                                | -          |

### Sales units (packages)

|              |          |                  |  |
|--------------|----------|------------------|--|
| Packing size | B-Pack   | SG 700 A / PUR 5 | Resin 10 x 1,000 kg / Hardener 10 x 0,150 kg = 11,500 kg |
| Units        | Resin    | SG 700 A Comp. A | 8,000 kg / 25,000 kg / 50,000 kg                         |
|              | Hardener | PUR 5 Comp. B    | 1,000 kg / 6,000 kg                                      |

## In General

**ebalta** SG 700 is a two-component-Polyurethane casting resin, which cures very fast at room temperature. The very good workability and the excellent mechanical properties makes SG 700 a material with versatile application possibilities.

**ebalta** SG 700 A is even more abrasion-resistant, but not so well workable by machine.

Displacements, even made of wood, can be filled in.

Material should be carefully stirred up/ shaken before use.

## Storing

At room temperature (18 – 25°C) and closed original containers storage life is 6 months.

Partly used containers have always to be closed and the material has to be used up as soon as possible.

## Safety measure

Please follow the precaution instructions of the Government Safety Organisation of the chemical industry when working with this material. Please follow safety advices !

## Waste Disposal

According to arrangement with local authorities cured material can be disposed as domestic or commercial waste.

Non-cured products are waste which is subject to inspection and has to be disposed accordingly.

In case of further questions please do not hesitate to contact our Department for Product Safety.

The instructions and recommendations are given in good faith and are based on long experience and careful tests. Since the conditions of use are beyond our control, and due to versatility of applications and working methods, we can't give any guarantee. All information are non-binding and are no guarantee for special characteristics or properties of the product. Despite information given from **ebalta** the customer has to make his own tests regarding applications and processing. If any special warranty is requested, written agreement on this subject is essential.

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