

|                   |                                     |
|-------------------|-------------------------------------|
| Basis             | infiltration resin for porous parts |
| Resin             | IH 16                               |
| Hardener          | IH 16 hardener fast                 |
| Colour            | opaque                              |
| Further hardeners | IH 16 hardener slow                 |

## Applications

- Infiltration of printed porous parts

## Properties

- very low viscosity
- good wet-out characteristics
- long flow paths

## Processing data

| Product               |                     | Mixture<br>IH 16 / hardener fast | Resin<br>IH 16 | Hardener<br>IH 16 hardener fast |
|-----------------------|---------------------|----------------------------------|----------------|---------------------------------|
| Colour                |                     | opaque                           | opaque         | yellowish transparent           |
| <b>Mixing ratio</b>   | <b>p. b. w.</b>     |                                  | <b>100</b>     | <b>30</b>                       |
| Viscosity at 25°C     | mPas                | 350 ± 50                         | 800 ± 100      | 55 ± 25                         |
| Density at 20°C       | g / cm <sup>3</sup> | 1,12 ± 0,02                      | 1,16 ± 0,02    | 0,98 ± 0,02                     |
| Pot life 200 g / 20°C | min.                | 50 - 60                          | -              | -                               |
| Curing time at RT     | hrs.                | 20 - 30                          | -              | -                               |

## Physical data

| Properties                               | Inspect. requirem. | Unit              | Value      |
|--|--------------------|-------------------|------------|
| Flexural strength                        | EN ISO 178         | MPa               | 135 ± 10   |
| Flexural modulus                         | EN ISO 178         | MPa               | 3520 ± 250 |
| Flexural elongation at break             | EN ISO 178         | %                 | 5,8 ± 0,1  |
| Impact resistance (Charpy)               | EN ISO 179         | kJ/m <sup>2</sup> | 47 ± 11    |
| compressive strength 0,75 % proof stress | EN ISO 604         | MPa               | 105 ± 10   |
| Heat resistance (HDT)                    | DIN EN ISO 75 B    | °C                | 78 ± 3     |
| Shore hardness                           | DIN ISO 7619-1     | Shore D           | 85 ± 3     |

## Sales units (packages)

|       |          |                     |                     |
|-------|----------|---------------------|---------------------|
| Units | resin    | IH 16               | 0,500 kg / 4,000 kg |
|       | hardener | IH 16 hardener fast | 0,150 kg / 1,200 kg |

## Processing instructions

The temperature of material and processing should be between 18 and 25° C.

The mixing of resin and hardener should be made intensively and if possible without any bubbles at room temperature.

## In General

At bigger quantities of >500g the working time will be clearly shorter.

**ebalta** IH 16 / hardener slow is a very thin liquid two component epoxy resin with high strength values and high mould resistance.

Due to its good soaking and wet-out characteristics the resin/hardener mixture is suitable as infiltration resin for porous printed parts.

For **ebalta** IH 16 are 3 different hardeners available.

IH 16 hardener slow: pot life 300 - 400 min.

IH 16 hardener fast: pot life 50 - 60 min.

IH 16 hardener very fast: pot life 15 - 25 min. (for machine application)

## Storing

At appropriate storage 18-25°C.

Occurring crystallization due to disadvantageous storage conditions can be made return by warming up the material at approx. 60° C for some hours.

Opened containers should be closed immediately after use and be protected against moisture. This material should be used up as soon as possible.

Shelf life is indicated on the labels

## 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.