

Biresin® M72 Model paste

Areas of Application

- Machine application of paste on substructures for production of contour shaped machinable blanks for design-, styling- or cubing models
- Biresin® M72** resin with higher thixotropy
- Biresin® M72 Classic** resin with better flowing properties

Product Benefits

- Hard, low density material with high dimensional stability
- After mixing the material becomes thixotropic and hangs well on vertical surfaces
- Fine, dense surface, easy to varnish
- Stress releasing formulation lowers distortion
- Easily workable

Description

- Basis Two-component-PUR-system
- Resin **Biresin® M72**, polyol, brown, filled
- Resin **Biresin® M72 Classic**, polyol, brown, filled
- Hardener **Biresin® M70**, MDI-based isocyanate, reddish brown, unfilled
- Filler **Biresin® Spachtel braun**, two-component-polyester-system, brown

| Processing Data | | Resin | | Hardener |
|--------------------------------|--------|--------------------------------|----------------------|--------------|
| Individual components | | Biresin® M72 | Biresin® M72 Classic | Biresin® M70 |
| Viscosity, 25°C | mPas | ~ 15,000 | ~ 9,000 | ~ 175 |
| Density | g/cm³ | 0.76 | 0.76 | 1.23 |
| Mixing ratio resin to hardener | in pbw | 100 | 100 | 45 |
| Mixture | | | | |
| Mixed viscosity, 25°C | | after 10 - 15 sec pasty | | |
| Potlife, RT | min | 10 (after machine application) | | |
| Setting time (workable) | h | > 8 | | |

Physical Data (approx. values)

| Biresin® M72 / M72 Classic resin | | | with hardener | Biresin® M70 |
|----------------------------------|--------------|-------|---------------|--------------|
| Density | ISO 845 | g/cm³ | | 0.9 |
| Shore hardness | ISO 868 | - | | D 65 |
| E-Modulus | ISO 178 | MPa | | 700 |
| Flexural strength | ISO 178 | MPa | | 20 |
| Impact resistance | ISO 179 | kJ/m² | | 9 |
| Glass transition temperature, Tg | ISO EN 61006 | °C | | 47 |

Processing Data

| Filler | | Biresin® Spachtel braun |
|-----------------------------|--------------------|-------------------------|
| Mixing ratio | in parts by weight | 100 : 2 |
| Potlife, RT | min | 5 |
| Setting time, RT (workable) | min | > 20 |



Packaging

| | | |
|-----------------------|---|--|
| Individual components | Biresin® M72 / M72 Classic , resin | 150 kg; 30 kg (only M72) net |
| | Biresin® M70 , hardener | 225 kg; 20 kg net |
| Filler | Biresin® Spachtel braun , resin | KT: 2 x 8.74 kg cartridges 6 x 1.76 kg tins in a box |
| | BPO-Paste , hardener | 2 x 0.16 kg sticks (for cartridges) 6 x 0.04 kg tubes in a box (for tins) |

Processing

- The material, processing and substrate temperature must be from 18 to 25°C.
- For more processing informations see: Processing Instructions Biresin® PUR pastes.
- Cured model resin layers can be modified and repaired with Biresin® Spachtel braun or weiß.

Storage

- Minimum shelf life is 12 month under room conditions (18 - 25°C), when stored in original un-opened containers.
- Containers must be closed tightly immediately after use to prevent moisture ingress. The residual material needs to be used up as soon as possible.

Health and Safety Information

For information and advice on the safe handling and storage of products, users should refer to the current Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

Disposal considerations

Product Recommendations: Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations.

Packaging Recommendations: Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of as product waste.

Value Bases

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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