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# 617H5 Orthopox epoxy resin

Orthopox lamination resin is a transparent epoxy-based resin for the fabrication of thin-walled and stable laminates using lamination technology. Thanks to excellent impregnation and bonding to the reinforcement fibres, it offers a very high level of component quality like prepreg technology and a higher structural strength compared to acrylic resins. The setting time of the lamination resin can be controlled via the temperature and the component can be individually coloured with the Ottobock colour pastes.

**Processing instructions:**

1. Can be demoulded after 10 hours at 23 °C ambient temperature under a vacuum
2. Interim annealing for 1 hour at 60 °C for optimal processing
3. Final annealing for tension-free final hardness, 1 hour at 100 °C
4. Optional: For permanent skin contact, 10 hours at 80 °C

**Benefits at a glance**

- For lightweight, thin-walled yet stable laminates
- Transparent epoxy-based resin
- Optimum resin content is easily established
- Small number of layers possible
- Optimum ratio of matrix to reinforcing materials
- Optimum impregnation, especially with carbon fibres
- Good adhesion to the reinforcement fibres
- Produces a very smooth surface
- Can be coloured with Ottobock colour pastes
- Setting time can be controlled via temperature

| **Orthopox epoxy resin** | | |
|---|---|---|
| **Article number** | **617H5=1** | **617H5=5** |
| **Net contents** | 1 kg | 5 kg |

| **EP hardener for Orthopox** | | |
|---|---|---|
| **Article number** | **617P5=0.26** | **617P5=0.7** |
| **Net contents** | 0.26 kg | 0.7 kg |

| Resin | : | Hardener | : | Colour paste |
|---|---|---|---|---|
| 100 | | 26 | | Max. 3 |

**Reinforcement fibres for 617H5 Orthopox epoxy resin:**

**Orthopox Carbon Fibre Woven**

- No fraying of the fibres
- No double-sided adhesive tape required
- Not for use with acrylic resins

| **Article number** | **616G12=H5.1** | **616G12=H5.5** |
|---|---|---|
| **Length** | 1 m | 5 m |

**Orthopox Cloth flex**

- Dyneema replacement with better resin adhesion
- Prevents breakage
- Very good post-processing characteristics (e.g. sanding)
- Not for use with acrylic resins

| **Article number** | **616G181=H5.2** |
|---|---|
| **Length** | 2 m |

Danger

For further information on the safety instructions, please see the corresponding Ottobock safety data sheet.



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