

OrthoEpoxy GreenLine. Sustainable epoxy resin.

The epoxy resin *OrthoEpoxy GreenLine* sets the next milestone for a new generation of materials that combine sustainability, occupational health & safety and functionality. *OrthoEpoxy GreenLine* is the first sustainable material that consists of at least 50% renewable raw materials. It eliminates possible health hazards posed by bisphenols during processing in the orthopedic workshop as well as for prosthesis and orthosis wearers (bisphenol A is a substance of concern).

OrthoEpoxy GreenLine is used for the fabrication of lightweight, thin-walled yet stable laminates in prosthetics and orthotics.

Thanks to excellent impregnation and bonding to the reinforcement fibers, it offers a very high level of component quality like prepreg technology. The setting time of the lamination resin can be controlled via the temperature, and the component can be individually colored with the Ottobock pigment pastes.



OrthoEpoxy resin GreenLine

OrthoEpoxy hardener GreenLine

| | | |
|-----------------------|--|-----------------|
| Article number | 617HG5=1 | 617HG5=5 |
| Article name | OrthoEpoxy resin GreenLine | |
| Net contents | 1 kg | 5 kg |
| | 100 resin : 40 hardener : pigment paste max. 3 | |
| Article number | 617PG5=0.4 | 617PG5=1 |
| Article name | OrthoEpoxy hardener GreenLine | |
| Net contents | 0.4 kg | 1 kg |
| Article number | 633T25=0.5 | |
| Article name | Parting agent for OrthoEpoxy GreenLine | |
| Net contents | 500 ml | |

OrthoEpoxy GreenLine. 617HG5

Benefits at a glance

- Bisphenol-free epoxy resin:
 - Non-carcinogenic
 - Non-mutagenic
 - Not harmful to reproduction
 - Non-endocrine-damaging
- Made of at least 50% renewable raw materials
- Improved occupational health and safety
- For lightweight, thin-walled, yet sturdy laminates
- Transparent, epoxy-based resin
- Impregnation especially of carbon fibers such as the proven 617H5 Orthopox
- Good bonding to the reinforcement fibers
- Can be colored with Ottobock pigment pastes

Practical recommendations

- Optional: Use parting agent to reduce adhesion of the PVA film to the cured laminate
- Processing time at room temperature approx. 30 minutes
- Start of gelation after approx. 45 minutes
- Partial curing after 12 hours
- Remove PVA film (outer film) prior to tempering to reduce sticking to the laminate
- Tempering in heating cabinet for 1 hour at 100 °C / 212 °F and for permanent skin contact 10 hours at 100 °C / 212 °F

Instructions for use

- Full curing of the lamination resin after 12 hours and subsequent tempering
- Lamination resin is not suitable for the fabrication of waterproof devices

Please see the 646T727=DE_INT OrthoEpoxy GreenLine technical information for further details on processing.

Reinforcement fibers for 617HG5

OrthoEpoxy GreenLine:

Orthopox woven carbon fiber

- No fraying of the fibers
- No double-sided adhesive tape required
- Higher mass per unit area: 245 g/m² (more compact for draping)

| Article number | 616G12=H5.1 | 616G12=H5.5 |
|----------------|-------------|-------------|
| Length | 1.00 m | 5.00 m |
| Width | 1,200 mm | 1.20 m |

Orthopox woven flex

- Design of flexible contact surfaces (e.g. flaps, straps, support surfaces)
- Protects against breakage
- Suitable for post-processing (e.g. cutting, sanding)

| Article number | 616G181=H5.2 |
|----------------|--------------|
| Length | 2.00 m |
| Width | 1,250 mm |

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