

Orthovinyl lamination resin – combining stability and user friendliness

Orthovinyl lamination resin is a vinylester-based resin that is easy to process and can be used to fabricate thin-walled, stable laminates.

Due to its structure, it bonds to carbon fibre more effectively than an acrylic resin. This achieves a high degree of stiffness at a low laminate wall thickness, which falls between that of an acrylic resin and that of an epoxy resin.

Nevertheless, Orthovinyl can be processed as quickly and easily as an acrylic resin. The standard Ottobock 617P37=0.150 hardener can be used.



Benefits at a glance:

- The laminate achieves a verified biocompatible state following sufficient tempering (see processing instructions)
- The resin exhibits a slightly yellow tinge in the liquid state which is not, however, visible in the laminate
- As with an acrylic resin, the setting time can be reliably determined based on the added hardener and the temperature
- Higher degree of stability than an acrylic resin due to better bonding to the reinforcement fibres
- Very easy to sand
- Excellent balance between matrix and reinforcement material
- Can be coloured with Ottobock pigment pastes
- Small number of layers possible
- Very good impregnation, especially of carbon fibres

Orthovinyl laminating resin

Article number	617H500=0.900	617H500=4.600
Net contents	0.9 kg	4.6 kg



i Please note the information in the safety data sheet.

Hardener for Orthovinyl

Article number	617P37=0.150
Net contents	0.15 kg



i Please note the information in the safety data sheet.

Mixing ratio

Resin	Hardener	Pigment paste	Pot life	Setting time
100 parts	1 part	Max. 3 parts	35 minutes	75 minutes
100 parts	2 parts	Max. 3 parts	20 minutes	50 minutes

All standard Ottobock carbon fibre and fibreglass products can be processed with Orthovinyl.

Processing instructions:

- Use Ottobock 617P37=0.150 hardening powder
- Do not use any thinners
- Final annealing: one hour per 1 mm laminate thickness at 80 °C

i Further information available at:
pe.ottobock.com/en/617h500.html