

ebacryl

The fireproof and dimensionally accurate laminate system to produce models and reproductions

Solution Takes Shape



ebalta

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**The ebacryl laminate system:
Dimensionally accurate, fast, environmentally friendly
and easy to use.**



Classic car produced with the help of ebacryl mouldings

Fast and dimensionally accurate

ebacryl is a laminate system consisting of gel coat, glass fibre mats, powder and emulsion. With ebacryl dimensionally accurate mouldings, negative moulds for reproductions, pre-production tools and decorative models can be easily produced.

For example, for moulding and producing the dragon skin of Tradinno. With about 16 m length the fire dragon from Furth im Wald is listed in the Guinness Book of records as the world largest walking robot.



The fireproof dragon head is laminated with ebalta epoxy resin LH 25 (fireproof certificated)

**Environmentally friendly and
“fireproof” (B1)**

ebacryl is water-based and ecologically compatible, environmentally friendly, and low in odour. The tools can be cleaned with water. ebacryl complies with the fire regulations of class B1 and is therefore very well suited, for example, for scenery construction.



ebacryl production moulds for the dragon skin, which was made of ebalta epoxy resin AH 140

Multifunctional use

ebacryl laminate system is used:

- To take negatives from design models made of resin, clay or foam. The ebacryl laminates can be used as production tools and as negative moulds for hammer forming tools, like for the classic car at the picture.
- To produce vacuum forming tools from an ebalta high temperature resistant casting system.
- For the fast production of support moulds for flexible female skin moulds of silicone or polyurethane, e. g. when taking negatives of sculptures or natural structures like tree barks or rocks.
- To produce small series tools for cast, hand and spray laminates.



Plaster reproduction made in ebacryl support mould and silicone skin



Small series production in ebacryl production mould



Support moulds made of ebacryl laminate system



Museum cave made of ebacryl



Birch reproduction made of ebacryl

Other applications

- To produce decorative components and models for museums or exhibitions like trees and animals.
- To produce large rock structures for natural history museums or replicas of tunnel walls.
- To strengthen existing moulds or surfaces. For example, the application of 1 to 2 layers ebacryl laminate makes expanded polystyrene walkable and fireproof.

Easy to use

The production of laminates with ebacryl is very easy and allows any thickness of laminates in only one working process:

- First, the gel coat ebacryl 0-1/SP-1 is mixed and applied. ebacryl 0-1/SP-1 has an almost plastic-like character.
- Glass fibre mats (360g), that have been saturated in a mixture (2:1 parts by weight) of powder ebacryl L-1 and emulsion ebacryl EM-1 are laid on this.
- After curing over night moulds and parts are ready.



Detail of a coal wall replica made of ebacryl

ebacryl Laminate System Product Range



ebacryl laminate system (B1)

Product	Applications	Properties	Sales units (packages)
ebacryl L-1 / EM-1	Laminating mixture for: - negatives - production moulds - scenery construction - support moulds - casting of reliefs and figures	- no shrinkage - low thermal expansion - any thickness of laminate in one working step - tools can be cleaned with water - no health risks - can be cast bubble free	ebacryl L-1 25.0 kg ebacryl EM-1 12.5 kg and 25.0 kg
Glass fibre mat 360g	Is impregnated with the ebacryl laminating mixture		1.28 m wide, packaged 5 m (approx. 6.4 m ² and rolls 90 m (approx. 115 m ²))
ebacryl 0-1/SP-1	Gel coat	- no shrinkage - tools can be cleaned with water - no health risks	Packaging contains: - 10 x 0.357 kg ebacryl 0-1 - 10 x 0.143 kg ebacryl SP-1
ebacryl coupling paste / TGL	Coupling paste for epoxy gel coats	- high heat resistance of approx. 96 ± 3 °C	ebacryl coupling paste 5.0 kg hardener TGL 1.0 kg
ebacryl Paste P-1 / EM-1	Production of negatives for complicated contours	- dimensionally accurate - high flexural strength - low CTE - no shrinkage	ebacryl paste P-1 8.0 kg ebacryl EM-1 2.5 kg

Silicones and base coats

Primer for wax sheets	The primer inhibits partial dissolving of the wax sheets caused by the solvents in the release agent. Furthermore it prevents pearling of the PVA film on the wax sheets.		1.0 l and 5.0 l
SILASTIC™ RTV-4250 S	Silicone suitable for: - clear casting resins - elastic casting moulds - shiny surfaces	- addition curing - high tensile strength - dry surface - very high elasticity for easy demoulding complex mould parts - very low shrinkage	1.1 kg / 5.5 kg / 22.0 kg
Thixo Additive RTV-3011	For thickening SILASTIC™ RTV-4250 S		0.5 kg

epoxy resins

OH 4	Gel coat for a higher number of castings	- multi purpose use - very easy to spread - easy to sand	0.325 kg / 6.0 kg / 20.0 kg
AH 140	All-purpose resin for laminating, hardeners with different pot lives	- low viscosity - high heat resistance - good curing at room temperature	5.0 kg / 10.0 kg / 25.0 kg / 50.0 kg / 220.0 kg
LH 25 resin /hardener	Laminating resin	- tested according to DIN 5510-2, flammability classification S 4	resin LH 25 20.0 kg hardener LH 25 5.0 kg

Auxiliaries: honey wax, brushes and mixing vessels

For more than 40 years ebalta has been a manufacturer of polyurethane and epoxy tooling resins for foundry pattern making, mould and tool making as design model making.

For any further questions please contact our international distributors worldwide or our export department. See reverse side.

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