## Giving technics a new shape, sets new standard in achievements.

Full scale high-speed locomotive with driver's cab. A big challenge which has been solved with great success by means of **ebalta** lay-up pastes: Fast and in a both impressive and economic way.



## Target: Arrival on schedule.

Application of 1,000 kg lay-up paste on front and central part within 3 days. After curing the segments were machined with a 5-axis milling machine, mounted and painted afterwards.

"The paste could be easily machined without any soft spots or sinkholes". This way the complete project was on schedule and the impressive model released as exhibit from the very first day of the trade show.

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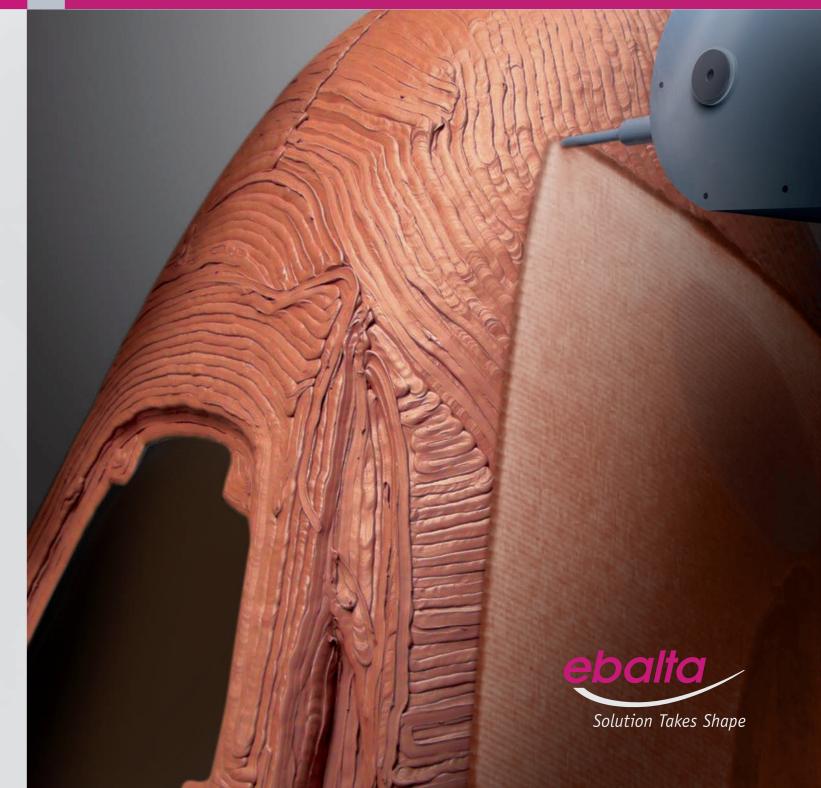
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Arundel, West Sussex, BN18 OHY Phone +44 77 85 57 36 12 E-Mail info@ebaltadistribution.co.uk ebalta lay-up pastes and service

# Your reliable project partner for oversize moulds.

**Tooling Resins Blocks Auxiliaries Silicones** 



# Making your great ideas take shape, depends on the right partner.

For more than 40 years ebalta have kept extending and updating their product range in order to meet ambitious requirements. Oversize models are just part of our challenges.

Even in the case of last minute modifications, the models will be perfectly shaped and finished in on short time. With our supply programme of lay-up pastes, service and, last but not least a long-time experience, ebalta are your ideal partner.

## Our experience for your individual projects.

Whether being about new moulds for the automotive- or aircraft-industry, tool making with positive or negative moulds or vacuum forming: our lay-up pastes and service guarantee perfect results achieved through the long term experience we bring to each project.

In detailed discussion with you, together we will find the ideal solution for optimum results.



## Planning. Application of paste and carrier: Service from one source!

Since 1974 we have not only been adhering to the principle of making excellent products but also guaranteeing intensive advice and support. Our experience and expertise, particularly for oversize moulds, enable us to offer you a complete service pack for your project:

- We are there to assist you at every stage of the project: from the first decision about the suitable product until project completion: we support you with the carrier lay-out and advise you on the schedule of all important milestones.
- Effective and reliable application of the suitable material by our three paste experts' team and our in-house-machine at your premises or if required training of your staff and adjustment of your in-house machine.
- Even under time and cost pressure it is precision and quality which count first. In cooperation with our longtime partners for machining, we manufacture the carriers based on your CAD data in quick time. Your advantage: flexible, effective and prompt proceeding.

Application of EP-lay-up paste P 26

# Making your vision touchable requires intensive support.

Our work begins long before you place the order. The more detailed the job is defined and the better we know your requirements and the required result, the better we can advise you on material choice and the best solution. The result will be both an excellently technical and efficient solution. And it is just up to you which service you call on!

## Step by step – Your mould is taking shape



contact person to advise you on material choice, service and schedule.

Phone: +49 9861 / 7007-94

E-Mail: fsiemon@ebalta.de

Our project manager Frank Siemon is the responsible



Depending on your requirements, and whether being of polystyrene, polyurethane foam or laminate, our partners manufacture the carrier in short time.



Application of epoxy paste on carrier, if required by our experienced paste team.



Depending on the mould size, application of the paste is finished within 1-2 days, afterwards the model can be machined and painted.

# You have demands of your own. We have the suitable solution.

Particularly for oversize models epoxy pastes by **ebalta** are a good choice.

They allow fast fabrication or modification of your models – at comparatively low costs.

## Fast and reliable. Lay-up pastes from **ebalta**.

Epoxy lay-up pastes from *ebalta* are most reliable and of excellent quality. We develop and manufacture your paste which – as most of our product range – is also available in short-time.

Whether in the automotive industry, boatbuilding, aircraft construction or wind energy plants: Our lay-up pastes are successfully applied in many different fields as there is design modeling, laminate making or jigs.

For repair of joints or surface refitment use our repair putty P 26.

**Properties** 



good edge stability, dimensionally stable application of 35 mm layers in one homogeneous surface, good machining

Physical data	Prüfvorschriften	Unit	Values
Density	DIN 51757	g/cm³	0,75 ± 0,03
Flexural strength	EN ISO 178	MPa	19 ± 2
Shore hardness	DIN 53505	D	58 ± 2
Coefficient of linear expansion	DIN 53752	10 <sup>-6</sup> K <sup>-1</sup>	approx 65
Linear shrinkage		%	approx 0.15
Layer thickness		mm	10 until 35
Reaction temperature at max. 20 mm		°C	approx 55