

Basis	good grinding, chemical resistant gelcoat
Resin	OH 38
Hardener	CH-1
Colour	alu grey
Further hardeners	SR

## Applications

- Vacuum forming tools
- PU-foaming tools
- Prepreg tools
- Adhesive probes

## Properties

- chemical resistant
- polishable
- low shrinkage
- dense surface
- aluminium-like
- good heat resistance

## Processing data

Product		Mixture OH 38 / CH-1	Resin OH 38	Hardener CH-1
Colour		alu grey	alu grey	yellow transparent
<b>Mixing ratio</b>	<b>p. b. w.</b>		<b>100</b>	<b>15</b>
Viscosity at 25°C	mPas	thixotrop	thixotrope	3500 ± 500
Density at 20°C	g / cm <sup>3</sup>	1,58 ± 0,05	1,65 ± 0,05	1,08 ± 0,02
Pot life 200 g / 20°C	min.	20 - 30	-	-
Curing time at RT	hrs.	16 - 24	-	-
Post curing	Time in h/ Temperature in °C	10 - 12 / 60 - 80	-	-

## Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	95 ± 5
Flexural strength at breakage	EN ISO 178	%	2,10 ± 0,20
Flexural modulus	EN ISO 178	MPa	6500 ± 500
Tensile strength	EN ISO 527	MPa	-
Tensile strength / test piece type 2	ISO 37	MPa	-
Elongation at break	ISO 37	%	-
Impact resistance (Charpy)	EN ISO 179	kJ/m <sup>2</sup>	17,5 ± 4
Compressive strength	EN ISO 604	MPa	110 ± 10
Heat resistance (HDT)	DIN EN ISO 75 B	°C	100 ± 3
Glass transition temperature TG	methode DSC	°C	-
Shore hardness	DIN 53505	Shore D	90 ± 3
Coefficient of linear expansion	DIN 53752	10 <sup>-6</sup> K <sup>-1</sup>	ca. 50

## Sales units (packages)

Packing size	A - Pack	OH 38 / CH-1	Resin 12 x 0,400 kg / Hardener 12 x 0,060 kg = 5,520 kg
Units	resin	OH 38	6,000 kg / 20,000 kg
	Hardener	CH-1	1,000 kg / 5,000 kg

## Processing instructions

The temperature of material and processing should be between 18 and 25° C.

After each use the containers have to be closed again.

Porous mould surfaces should be sealed before ( **ebalta** sealant ).

For an optimum mould release we recommend a suitable release agent (e.g. T 1-1) which can be easily applied with a brush.

The mould should be treated 2 or 3 times with release agent and allowed to evaporate for approx. 20 min after every application.

Mixing ratio resin/hardener according to instructions!

Stirring rods etc. with residual resin can be easily cleaned with **ebalta** cleaning agent.

## In General

**ebalta** OH 38 is a two components epoxy gel coat which cures at room temperature without almost any shrinkage. It shows a polishable very dense surface with aluminium-like character.

Due to its thixotropic consistency a 1 mm layer of the resin/hardener mixture can easily be applied free from bubbles with a short-haired brush and without sagging from edges, corners and vertical surfaces. Apply the gel coat twice within 60 minutes.

For long service life and high temperature resistance of the tools we recommend postcuring for 10-12 hrs. at 60-80°C.

## Storing

Storage at room temperature 18-25 °C.

Opened containers should be closed immediately after use and should be used up as soon as possible.

Shelf life is indicated on the labels.

## Safety measure

Please follow the precaution instructions of the Government Safety Organisation of the chemical industry when working with this material. Please follow safety advices !

## Waste Disposal

According to arrangement with local authorities cured material can be disposed as domestic or commercial waste.

Non-cured products are waste which is subject to inspection and has to be disposed accordingly.

In case of further questions please do not hesitate to contact our Department for Product Safety.

The instructions and recommendations are given in good faith and are based on long experience and careful tests. Since the conditions of use are beyond our control, and due to versatility of applications and working methods, we can't give any guarantee. All information are non-binding and are no guarantee for special characteristics or properties of the product. Despite information given from **ebalta** the customer has to make his own tests regarding applications and processing. If any special warranty is requested, written agreement on this subject is essential.

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