

HIGH-PERFORMANCE POLYURETHANE & EPOXY RESIN SYSTEMS.



PRODUCT OVERVIEW

ebalta

Company Profile	4-5
------------------------------	-----

Board and Block Material

Polyurethane Boards ebaboard	6-7
Polyurethane Blocks ebablock®	8-9
Epoxy Boards ebaboard EP	8-9
Foam Boards ebazell	8-9
Adhesives, Repair Putty and Casting resins ebafix	6-9

Machine-Processable Epoxy Modelling Paste

Machinable Epoxy Modelling Paste	10-11
--	-------

Polyurethane Casting Resins Systems

Fast Casting Resins unfilled/filled	10-11
Polyurethane Casting Resins rigid	10-11
Polyurethane Casting Resins hard elastic	12-13
Polyurethane Casting Resins flexible	12-13
Polyurethane Gel Coats	14-15
Casting Resins for Climbing Holds durability®	14-15
Casting Foams	14-15
Polyurethane Casting Resins for Electrical Encapsulation	14-15

Small Series and Prototype Resins

Prototype Resins for RIM	16-17
Prototype Resins for Vacuum Casting	16-17

Silicones

Silicones – Addition Curing	18–19
Silicones – Condensation Curing	18–19

Epoxy Resins

Epoxy Casting Resins	20–21
Epoxy Gel Coats	20–21
Epoxy Laminating Resins	22–23

Pastes

Laminating Pastes	22–23
Coupling Pastes	24–25
Modelling Pastes	24–25

Additives and Ancillary Equipment

Release Agents	26
Fillers	26
Polyester Putty	26
Sealer	26
Color Pastes	26
Fibre	26
Wax Sheets	26
Mould Maker Gypsum	26
Accessoires	26

International Distribution

ebalta

About ebalta

For more than 50 years, ebalta has been a leading manufacturer of polyurethane and epoxy resin systems, boards and blocks for model-making and mould-making, as well as for the production of plastic parts. ebalta solutions are successfully used worldwide across a range of industries, including the automotive industry, aerospace, mechanical engineering, rail vehicle manufacturing, maritime applications and medical technology. The ebalta team currently comprises over 140 dedicated employees at its site in Rothenburg ob der Tauber, Germany.

Sustainability – The first step has been taken

ebalta aims to be the first plastic manufacturer to offer sustainable solutions from prototypes through to small-scale production runs. In doing so, the environmental footprint is continuously reduced by cutting emissions in production and using renewable raw materials. Since 2020, the carbon footprint along the value chain has been calculated and offset through investment in certified climate protection projects.

ebalta product range –

A wide range of applications with ebalta service

The ebalta product range has been specially developed to meet the requirements of foundry pattern making, design model making and mould and tool making. Solutions made from ebalta casting resins are also produced for production parts such as composites, climbing holds, components for computer tomography scanners and trim parts. From prototype development to finished product, ebalta provides comprehensive expertise and offers product recommendations customised to the specific project requirements. The diverse product range and services are available in Germany via a wide network of regional sales offices and the head office, as well as globally through international distributors.

Board and block materials from ebalta – High performance from master models to highly abrasion-resistant tools

ebalta offers a wide range of high-quality board materials with densities ranging from 0.08 to 1.86 g/cm³. The boards are available in standard sizes and, on request, in custom sizes. The products are used in a wide range of applications, from design studies to master models, as well as in tools for foundry pattern making, sheet metal forming, vacuum moulding and RIM. For jointless models, moulds and tools with complex geometries, such as prepreg tools for turbines or polyurethane parts used in computer tomography scanners, eblock[®] is recommended – a polyurethane block manufactured to individual geometric requirements. The full range of tooling boards and blocks from ebalta includes compatible adhesives, repair putties and casting resins.

Machine-processable modelling paste – Everything from a single source, from start to finish

ebalta's epoxy modelling paste is equally suitable for 1:1 design models – for example, in the automotive or rail vehicle industries – as well as for production moulds, such as laminating moulds for wind turbine blades or boat hulls. The modelling paste is applied by customers or by the ebalta paste team on site or in the production halls in Germany using the company's own paste application system. Suitable materials for the supporting structure can also be found in ebalta's product portfolio.

Casting resin systems and silicones – quality and availability

ebalta offers a wide range of application-friendly, high-quality two-component casting resin systems based on polyurethane and epoxy resins, as well as silicones. More than 2,000 products are regularly tested for their suitability for the respective applications and are continually developed further. A wide range of auxiliary materials and accessories is available for processing, repairs or ancillary work.

Polyurethane Boards ebaboard

Product	Colour	Applications	Key features
ebaboard 0300	pink	master models, design models, demonstration models, architectural models	easy to process, large dimensions
ebaboard 0400	apricot	master models, design models, demonstration models, architectural models, laminating moulds	easy to process, good surface
ebaboard L-2	apricot	master models, design models, demonstration models, architectural models, laminating moulds	easy to process, sturdy edges
ebaboard 0600	brown	master models, design models, foundry patterns, data control models, post curing tools	good surface, excellent value for the price
ebaboard 0610 EF	grey	master models, data control models, vacuum forming tools, post curing tools	ecofriendly, contains 85 % recycled / sustainable raw materials
ebaboard 0700	brown	master models, design models, foundry patterns, data control models, post curing tools	top seller, very good surface
ebaboard 0750	turquoise	master models, foundry patterns, laminating moulds	smooth surface
ebaboard 0800	grey	master models, foundry patterns, laminating moulds, design models	fine structure
ebaboard 1050	light grey	foundry patterns, core boxes, form recordings, gauge construction, vacuum forming tools	good heat resistance
ebaboard PW 920	green	core boxes, foundry patterns, form recordings	top seller, universal, very good surface, abrasion resistant
ebaboard 1250	light green	gauge construction, foundry patterns, core boxes	low coefficient of linear expansion, inexpensive
ebaboard 1150 EF	green	foundry patterns, core boxes, form recordings, gauge construction	ecofriendly, contains 60 % carbon from renewable sources, abrasion resistant
ebaboard 1400	blue	foundry patterns, core boxes, form recordings	high edge stability, for large models
ebaboard 1220	orange	foundry patterns, core boxes, form recordings	high abrasion resistant
ebaboard W	grey	sheet metal forming tools, gauge construction, hammer tools, vacuum forming tools, foaming moulds	high compressive strength, metal-filled

BOARD AND BLOCK MATERIAL

Density [g/cm ³]	Linear thermal ex- pansion coefficient [10 ⁻⁶ K ⁻¹] 20-50 °C	Temperature resistance HDT [°C]	Available sizes [mm]	Adhesive, repair putty and casting resins
0.30	approx. 50	70 (T _G)	2000 x 500 x 50 / 100 / 150 2000 x 1000 x 50 / 100 / 150 / 200	ebafix apricot
0.40	approx. 30	70 (T _G)	1500 x 500 x 50 / 75 / 100 / 150 / 200	ebafix apricot
0.45	approx. 80	80	1500 x 500 x 50 / 75 / 100 / 150 / 200	ebafix apricot
0.60	approx. 59	75	1500 x 500 x 30 / 50 / 75 / 100 / 150 / 200	ebafix and repair putty brown
0.60	approx. 60	104	1520 x 600 x 50 / 75 / 100	ebafix and repair putty light grey
0.70	approx. 49	78	1500 x 500 x 30 / 50 / 75 / 100 / 150 / 200	ebafix and repair putty brown
0.75	approx. 56	86	1495 x 500 x 50 / 75 / 100 / 150 / 200	ebafix and repair putty turquoise
0.80	approx. 69	89	1495 x 500 x 50 / 75 / 100 / 200	ebafix and repair putty light grey
1.05	approx. 60	98	1000 x 500 x 50 / 75 / 100 special sizes on request	ebafix and repair putty light grey
1.22	approx. 87	80	1000 x 500 x 30 / 50 / 75 / 100 special sizes on request	ebafix, repair putty and casting compound green
1.25	approx. 49	87	1500 x 500 x 50 / 75 / 100	ebafix, repair putty and casting compound green
1.15	approx. 100	83	1000 x 500 x 50 / 75 / 100	ebafix, repair putty and casting compound green
1.38	approx. 69	87	1000 x 500 x 30 / 50 / 75 / 100 special sizes on request	ebafix and repair putty blue
1.21	approx. 73	82	1000 x 500 x 50 / 75 / 100 special sizes on request	ebafix and repair putty orange
1.76	approx. 50	76	1000 x 500 x 50 / 75 / 100 special sizes on request	ebafix grey

Polyurethane Blocks ebablock®

Product	Colour	Applications	Key features
ebablock® M 007	brown	design models, cubing models, master models, data control models, leathering models	seamless cubings
ebablock® 1050	light grey	foundry models, core boxes, form recordings, gauge construction, vacuum forming tools	good heat resistance
ebablock® 920	green	core boxes, foundry models, form recordings	universal, very good surface, abrasion resistant
ebablock® 1400	blue	foundry models, core boxes, form recordings	high edge stability, for large models
ebablock® 1220	orange	foundry models, core boxes, form recordings	high abrasion resistant
ebablock® W	grey	sheet metal forming tools, gauge construction, hammer tools, vacuum forming tools, foaming moulds	high compressive strength, metal-filled
ebablock® P 185	blue	master models for nickel shells, lay-up tools for low-temperature prepreg	high heat resistance, large volumes possible, low coefficient of linear expansion

Epoxy Boards ebaboard EP

ebaboard EP 139 EF	light blue	lay-up tools for prepreg, master models for prepreg, moulds and tools for composites, vacuum forming tools	very high heat resistance, low coefficient of linear expansion, contains ~75% recycled raw materials
ebaboard EP 120	blue	lay-up tools for prepreg, master models for prepreg, moulds and tools for composites, vacuum forming tools	dense surface

Foam Boards ebazell

ebazell 80	beige	master models, design models, demonstration models, architectural models	easy to process
ebazell 160	light green	master models, design models, demonstration models, architectural models	easy to process
ebazell 260	apricot	master models, design models, demonstration models, architectural models	easy to process

BOARD AND BLOCK MATERIAL

Density [g/cm³]	Linear thermal expansion coefficient [10 ⁻⁶ K ⁻¹] 20-50 °C	Temperature resistance HDT [°C]	Available sizes [mm]	Adhesive, repair putty and casting resins
0.82	approx. 67	68	individual dimensions to customer requirement	ebafix and repair putty brown
1.05	approx. 60	98	individual dimensions to customer requirement	ebafix and repair putty light grey
1.22	approx. 87	80	individual dimensions to customer requirement	ebafix, repair putty and casting compound green
1.38	approx. 69	87	individual dimensions to customer requirement	ebafix, repair putty and casting resin blue
1.21	approx. 73	82	individual dimensions to customer requirement	ebafix and repair putty orange
1.76	approx. 50	76	individual dimensions to customer requirement	ebafix grey
1.82	approx. 39	115	individual dimensions to customer requirement	ebafix P 185, casting resin P 185

0.66	approx. 34	>150	1524 x 609 x 50 / 75 / 100 / 150	ebafix 552
0.90	approx. 38	120	1524 x 609 x 50 / 75 / 100 / 150	ebafix 552

0.08	approx. 50	-	2000 x 1250 x 50 / 100 / 150 / 200 / 300 / 400 special sizes on request	ebafix ebazell
0.16	approx. 50	-	2000 x 1000 x 100 / 150 / 200 / 300 / 400 special sizes on request	ebafix ebazell
0.26	approx. 50	-	2000 x 1000 x 50 / 100 / 150 / 200 special sizes on request	ebafix apricot

Machinable Epoxy Modelling Paste

Resin / Hardener	Colour	Properties	Applications
P 29 resin / hardener	light grey	EP modelling lay-up paste, density 0.75 g/cm ³ , 10–35 mm layer thickness, high T _g 100 °C, dimensionally stable, very easy to process, fine structure	design models, seamless laminating moulds, art objects

Fast Casting Resins Unfilled/Filled

Resin / Hardener	Colour	Properties	Applications
SG 2000 A / B	ivory	unfilled , very thin liquid, high filler content possible, good curing, very high strength, very heat resistant	foundry patterns, core boxes, negatives, control castings
SG 197 A / B	ivory	unfilled , high impact strength, very easy to cast, low viscosity	prototypes, toys, decorative items
SG 130 / PUR 11	ivory	unfilled , impact resistant, high strength	foundry patterns, core boxes, negatives, vacuum forming tools
SG 700 / PUR 5	blue	filled , easy to cast, fine structure, dimensionally accurate, fast curing, versatile	foundry patterns, core boxes, jigs, negatives, control castings

Resin / Hardener	Colour	Properties	Applications
GM 708 / PUR 4	brown	unfilled, slow curing	sheet metal forming, foundry patterns, negatives, jigs
GM 727 A / B	beige	castable in thick sections, dimensionally accurate, good workability	jigs, pattern plates, foundry patterns, control casting, negatives
GM 979 / PUR 1	green	good demoulding from mould and core sand	foundry patterns, core boxes, pattern plates, negatives

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Type	Properties	Mixing ratio
20-30	100 : 100	-	-	-

POLYURETHAN CASTING RESINS SYSTEMS

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
2.5-3.5	100 : 100	SG 2000 S	pot life 1.5-2.5 min.	100 : 100
		SG 2000 L	pot life 7-8 min.	100 : 100
		SG 2015	pot life 10-15 min.	100 : 100
4-6	100 : 100	SG 198	pot life 2-3.5 min.	100 : 100
2.5-3.5	100 : 100	SG 130 L	pot life 5-7 min.	100 : 100
		SG 131	pot life 9-15 min.	100 : 100
5-6	100 : 15	SG 700 A	abrasion resistant, pot life 5-7 min.	100 : 15

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
45-60	100 : 75	-	-	-
25-35	100 : 22	-	-	-
25-35	100 : 25	-	-	-

Polyurethane Casting Resins Hard Elastic

Resin / Hardener	Colour	Properties	Applications
GM 984-1 A / B	reddish-transparent	Shore D hardness 65, long pot life, large volumes castable, abrasion resistance	core boxes, jigs, foundry patterns
GM 984-2 A / B	reddish-opaque	Shore D hardness 62, abrasion resistance	core boxes, jigs, foundry patterns
GM 986-2 A / B	yellow-opaque	Shore D hardness 68, dimensionally stable at high temperatures, abrasion resistant	foundry patterns, core boxes
GM 987-2 A / B	orange-opaque	Shore D hardness 65, high abrasion resistance	foundry patterns, core boxes

Polyurethane Casting Resins Flexible

Resin / Hardener	Colour	Properties	Applications
GM 952 A / B	black	Shore A hardness 43, easy to cast, good tear resistance	casting moulds, gaskets, fixtures
GM 956 / GM 956-30	trans- parent	Shore A hardness 30, Shore hardness (flexibility) variable, excellent flow properties, easily pigmentable, high tear resistance, odorless	prototypes with rubber-like properties, flexible parts
GM 956-90 A / B	trans- parent	Shore A hardness 90, good flow properties, easily pigmentable, high tear resistance, odorless	prototypes with rubber-like properties, flexible parts
GM 965-55 A / B	red	Shore A hardness 55, filled, grindable	casting moulds for ceramic, concrete, cement, gypsum
GM 968 A / B	red- brown	Shore A hardness 55, good tear resistance	casting moulds for ceramic, concrete, cement, gypsum, wax, plastic
GM 971-75 A / B	white	Shore A hardness 78, easy to cast, high strength, cold flexible, easily pigmentable	flexible parts, vacuum casting parts, casting moulds for gypsum, casting mould for plastic, casting mould for wax, jigs, casting mould for PU-foam
GM 973 A / B	beige, black	Shore A hardness 90, high tear resistance, easy to cast, flexible, pigmentable	flexible parts, fixtures

POLYURETHANE CASTING RESINS SYSTEMS

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
30-45	100 : 130	-	-	-
17-20	100 : 130	-	-	-
13-18	100 : 35	-	-	-
approx. 13	100 : 40	-	-	-

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
15-20	100 : 11.5	-	-	-
20-30	100 : 205	GM 956-45	45 Shore A	100 : 180
		GM 956-60	60 Shore A	100 : 150
		GM 956-70	70 Shore A	100 : 110
		GM 956-80	83 Shore A	100 : 80
18-22	100 : 125	-	-	-
15-20	100 : 11	GM 965-40	40 Shore A	100 : 11.5
		GM 965-70	70 Shore A	100 : 15
25-35	100 : 80	-	-	-
7-9	100 : 66	GM 971-85	86 Shore A	100 : 52
12-15	100 : 15	-	-	-

Polyurethane Gel Coats

Resin / Hardener	Colour	Properties	Applications
OH 49-1 A / B	green	high abrasion resistant, hard elastic, Shore D hardness approx. 66	fixtures, pattern plates, foundry patterns, core boxes, hammer form tools

Casting Resins for Climbing Holds **durantity®**

Resin / Hardener	Colour	Properties	Applications
durantity® 1914 S EF A / B	whitish	for machine casting of climbing holds according to EN 12572-3:2017, contains approx. 40 % raw materials from renewable sources, abrasion resistant, free of plasticiser	climbing holds, master, displacements (hollowbacks)
durantity® 2310 S EF A / B	opaque	for machine casting of climbing holds according to EN 12572-3:2017, contains approx. 40 % raw materials from renewable sources, abrasion resistant, free of plasticiser, good impact strength	climbing holds, master, displacements (hollowbacks)

Casting Foams

Resin / Hardener	Colour	Properties	Applications
PU 10 A / B	beige	density 100 g/l, fine structure, further densities on request	styling models, core material, base constructions, negatives
PU 17W A / B	black	density 180 g/l, fine structure, viscoelastic	flexible foam moulded parts, material for protectors
PU 61 FR A / B	grey	density 45-60 g/l, easy to work with, minimum flue gas emissions, good mechanics, self-extinguishing	insulation, lightweight panels, multi-layer constructions

Polyurethane Casting Resins for Electrical Encapsulation

Resin / Hardener	Colour	Properties	Applications
EGM PU 21 A / B	grey	UL 94 V-0 classification	electrical encapsulation, e.g. condensator, transformers

POLYURETHANE CASTING RESINS SYSTEMS

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
20-25	100 : 130	-	-	-

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
2-3	100 : 80	duranity® 1914 L EF A / B	manual casting 8-10 min.	100 : 80
2-3	100 : 75	duranity® 2310 L EF A / B	manual casting 8-10 min.	100 : 75

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
1-1.5	100 : 120	PU 20	density 200 g/l	100 : 80
		PU 05	density 50 g/l	100 : 160
1-1.5	100 : 50	-	-	-
2-3	100 : 75	-	-	-

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
60	100 : 30	EGM PU 21/30	Pot life 30 min., concrete grey	100 : 30

Prototype Resins for Low-Pressure RIM

Resin / Hardener	Colour	Properties	Applications
MG 321 FR-S A / B	black, natural	self-extinguishing according to UL 94 V-0 and 5 VA	cladding parts EDP field and parts medical sector, vehicle construction
MG 331 FR A / B	black	fire protection in rail vehicles according to DIN EN 45545-2, classification R22 HL 1, HL 2, HL 3, classification R23 HL 1, HL 2, HL 3, high heat resistance HDT 120 °C	production parts "listed" and "non-listed", interior / exterior of rail vehicles, interior/exterior equipment of buses, interior/exterior equipment of cable cars
MG 425 / PUR 19	black	medium E-modulus, high impact resistance	functional, prototyping and cladding parts for automotive field and engineering
MG 426 A / B	black	casting of big thicknesses possible	functional, prototyping and cladding parts for automotive field and engineering
MG 453 A / B	black	high heat resistance, excellent flow properties	functional, prototyping and cladding parts for automotive field and engineering

Prototype Resins for Vacuum Casting

Resin / Hardener	Colour	Properties	Applications
MG 703 / Z 400	white	high impact strength, good flexural strength	high quality prototypes like PP / PE
MG 707 / Z 400	white	high impact strength, good flexural strength, working temperature range from -40°C to 100 °C, long pot life, RoHS conform	high quality prototypes like PP/ PE, vehicle construction, domestic articles, consumer goods
MG 804 A / B	natural, black	long pot life, easy to cast	high quality prototypes and small series, like ABS and PA
MG 807 FR A / B	beige	flame retardant according to UL 94 V-0, easy to cast, long pot life, RoHS conform	high quality prototypes, like ABS
MG 815 A / B	black	high temperature resistance, high impact resistance	high quality prototypes, like ABS and PA

CASTING MATERIALS FOR SMALL SERIES AND PROTOTYPES

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
50–60 sec.	100 : 50	MG 321 FR	longer pot life 70–80 sec.	100 : 50
55–60 sec.	100 : 45	–	–	–
50–60 sec.	100 : 90	–	–	–
150–160 sec.	100 : 100	–	–	–
55–60 sec.	100 : 75	MG 453 GF A / B	high rigidity, glass fiber reinforced	100 : 60

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
8–12	100 : 31	MG 703 / Z 460	longer pot life 60 min.	100 : 31
8–12	100 : 30	MG 707 / Z 460	longer pot life 60 min.	100 : 30
10–13	100 : 100	MG 804 / MG 804-1	higher HDT	100 : 100
		MG 804 GF A / MG 804-1 B	very high rigidity, glass fiber reinforced	100 : 50
5–7	100 : 100	–	–	–
5–7	100 : 70	MG 815 A / MG 815 FR B	flame retardant variation according to 94 V-0, classified according to DIN EN 45545-2:2013-08, R24, hazard level HL2	100 : 120

Silicones – Addition Curing

Resin / Hardener	Colour	Properties	Applications
Silastic™ RTV-4250 S	green	very good tear strength, low viscosity, dry surface, 25 Shore A	elastic moulds, particularly suitable for glossy surfaces and clear resins
Silastic™ RTV-4131 P 1	white	very good tear strength, low viscosity, easy setting of hardness with silicone oil, 25 Shore A	pad printing, elastic moulds, gaskets and elastic parts
Silastic™ RTV-4234 T 4	trans-lucent	translucent silicone, usable with retardant or accelerator, low shrinkage, 40 Shore A	vacuum casting moulds for prototypes and small batch series, moulds for wax and fine cast models
Silastic™ RTV-4136 M	blue	high hardness and temperature resistance, 59 Shore A	pressure pads for laminating vacuum bags and autoclaves, moulds for low-melting metal alloys

Silicones – Condensation Curing

Resin / Hardener	Colour	Properties	Applications
Silastic™ RTV-3120/ Silastic™ RTV-3010 S	red-brown	high hardness and excellent temperature resistance, 56 Shore A	moulds for low-melting metal alloys with small undercuts
Silastic™ RTV-3481/ Silastic™ RTV-3081	white	good flowability, pot life adjustable, 24 Shore A	moulding of arts/crafts, figurines, rocks, skin-like mould, laminating moulds for polyester
Silicone 30	white	non adhesive properties, high elasticity, highly detailed forming, excellent mechanical properties	casting of art objects, casting of figurines, casting of rocks, casting of gelcoat, laminating, moulds for polyester, climbing holds
Thixo Additive RTV-3011	trans-parent	for thickening addition and condensation linked silicones	for applications on vertical and overhead surfaces, manufacture of skin-like moulds

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
40-60	100 : 10	-	-	-
40-60	100 : 10	-	-	-
90	100 : 10	4234-T-4 O	oil bleeding	100 : 10
60	100 : 10	-	-	-

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
60	100 : 10	-	-	-
90-120	100 : 5	3081-F	fast, pot life 30-45 min.	100 : 5
		3081-VF	very fast, pot life 8-10 min.	100 : 5
		3081-R	pot life 90-120 min., resin resistant	100 : 5
50-60	100 : 5	-	-	-
-	1-3 %	Primer 1200 OS	bonding agent for metallic substrate-surfaces	-

Epoxy Casting Resins

Resin / Hardener	Colour	Properties	Applications
GH 705 / TL-1	alu-grey	heat resistance up to 91 °C, filled with aluminum powder	PU-foaming tools, RIM foaming tools, vacuum forming tools, heatable foundry patterns
GH 730 / BR	black	universal	foundry patterns, core boxes, pattern plates, jigs
GH 752 / TL-1	alu-grey	heat resistance up to 90 °C, thick castable, filled with aluminum powder	vacuum forming tools, PU-foaming tools, RIM foam tools, heatable foundry patterns
GH 760 / GL	grey	good gliding properties	foundry patterns, core boxes, model boards, stretch tools

Epoxy Gel Coats

Resin / Hardener	Colour	Properties	Applications
OH 4 / H 2017	white, blue	universal	negatives, master models, jigs, foundry patterns
OH 6-1 / H 2017	blue	very abrasion resistant, very hard	foundry patterns, copy-milling models
OH 33 / H 2017	black	polishable	RTM tools, hand lay-up models
OH 38 / H 2017	alu-grey	aluminium-like appearance, polishable	vacuum forming tools, PU-foaming tools, prepreg tools
OH 82 / TM	black	low thermal expansion, high heat resistance up to 175 °C	prepreg tools, vacuum forming tools, high-temperature press tools

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
65-75	100 : 10	-	-	-
35-45	100 : 10	D	low viscosity	100 : 5
		GL	longer pot life	100 : 8
60-70	100 : 7	-	-	-
45-55	100 : 10	-	-	-

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
20-25	100 : 13	-	-	-
40-50	100 : 9	-	-	-
		-	-	-
20-25	100 : 15	-	-	-
25-30	100 : 12	-	-	-
220-260	100 : 31	-	-	-

Epoxy Laminating Resins

Resin / Hardener	Colour	Properties	Applications
AH 100 / TG	yellow-transparent	unfilled, affordable, low viscosity	bonding resin for silica-sand-auxiliary negatives
AH 110 / TG	yellow-transparent	unfilled, high strength, heat resistance up to 105 °C	laminating resin also for heavy fabrics / bonded fabrics, binding resin for fillers
AH 120 / TG	whitish-transparent	unfilled, heat resistance up to 100 °C, low viscosity	laminating resin also for heavy fabrics / bonded fabrics, vehicle construction
AH 140 / TC 90-2	yellow-transparent	low viscosity, high strength, high heat resistance up to 110 °C	hand laminating, vacuum injection, laminates for: boatbuilding, automotive industry
LH 28-1 / TM	brown-transparent	high heat resistance up to 175 °C, long processing time, low exothermic reaction	vacuum forming tools, prepreg tools, vacuum injection, blow moulds, polyester injection moulds

Laminating Pastes

Resin / Hardener	Colour	Properties	Applications
PS 02 / BRIL	blue-grey	glassfiber filled	foundry patterns, core boxes, negatives
PS 03-1 / PS 03-1L	blue-grey	glassfiber filled, heat resistant up to 68 °C	core boxes, negatives, foundry patterns
PS 05 / TL-1	grey	glassfiber filled, low shrinkage, heat resistant up to 105 °C	vacuum forming tools, PU-foaming tools, prepreg tools
PS 08 / TL-1	alu-grey	aluminium filled, glassfiber filled, air permeable	bulking material for vacuum forming tools and fixtures

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
40-50	100 : 20	D	high filler content possible	100 : 19
		GL	universal	100 : 29
35-40	100 : 22	TGL	good curing	100 : 22
		TGS	fast curing	100 : 22
35-40	100 : 22	TGL	good curing	100 : 22
		TGS	fast curing	100 : 22
90-105	100 : 32	LI 20-1	short processing time	100 : 35
		LI 130-2	good curing	100 : 35
240-360	100 : 40	-	-	-

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
50-60	100 : 12			
40-50	100 : 11	-	-	-
50-60	100 : 13	-	-	-
45-60	100 : 3	-	-	-

Coupling Pastes

Resin / Hardener	Colour	Properties	Applications
KP 6 / TGL	grey	aluminium filled, heat resistant up to 100 °C	coupling paste for EP gel coats in combination with EP backfilling
KP 7-1 / TM	grey	aluminium filled, heat resistant up to 175 °C	coupling paste for OH 82 with LH 28-1
KP 8 A / B	grey	well spreadable, good bonding agent	coupling paste for PU gel coats in combination with PU backfilling
HV 55 A / B	green	very good bonding on: steel, stainless steel, aluminium, flexible PU casting resins, wood	bonding agent and adhesive for elastic PU-resins

Modelling Paste

Resin / Hardener	Colour	Properties	Applications
P 22 resin / hardener	red-brown	good manual modelling, dimensionally accurate, very good workability, long processing time, density 500 g/l	master models for automotive, aerospace and industrial design

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
30-40	100 : 18	BR	coupling paste for PU-systems in combination with EP-systems	100 : 26
240-360	100 : 32	-	-	-
20-25	100 : 28	-	-	-
25-35	100 : 25	-	-	-

Pot life approx. min.	Mixing ratio p.b.w.	Product variants		
		Product	Properties	Mixing ratio
40-50	100 : 100	-	-	-

ADDITIVES AND ANCILLARY EQUIPMENT

Release Agents

T1-1	Standard universal release agent, liquid, polishable, short drying time up to 60 °C, also available as spray
T 2	pasty, soft, polishable
T 03-01	liquid, heat resistant up to 100 °C
T 7	pasty, well polishable, resistant up to 80 °C
T 17	semi-permanent, high-temperature resistant
Honey Wax	highly polishable
1711	spray, contains silicone, heat resistant up to 125 °C
PVA-release film	liquid, builds a shiny heat and chemical resistant film, removable with water

Fillers

light filler, F-A, F-B, F-Alu, MF-paste, alu-granules, alu-powder, Thixo 200

Polyester Putty

Fast curing model paste	brown
ebalta-plast	white or mahogany, very dense structure, free of pores
Repair paste	silver coloured, heat resistant, for repairs of metal or plastic
Model paste styrene free	styrene free, very easy to machine and grindable

Sealer

Sealer 02	top-quality finish for EP and PU boards, high-quality surface
Sealer 09	primer for porous EP and PU boards, high filling effect
Pore sealer	liquid, fast drying, sandable and sprayable, seals rough surfaces such as wood or gypsum

PU-Colour Pastes

PU-colour pastes	red, blue, green, yellow, white, black, brown
-------------------------	---

Fibre

Chopped glass strands	length of fibres 6 mm
Glass filament fabrics	163 g/m², 280 g/m², 445 g/m², 600 g/m²

Wax Sheets

Special sheets Freeman Typ 165	light yellow, 610 x 305 mm, self adhesive, 0.20–4 mm, temperature resistant up to 80 °C
Special sheets Freeman Typ 266	brown 610 x 305 mm, self adhesive, smooth, 0.25–5 mm, temperature resistant up to 130 °C
ebalta wax sheets 64 °C	lemon yellow, 610 x 305 mm, self adhesive, soft, 1–6 mm
ebalta wax sheets 130 °C	light brown, 610 x 305 mm, self adhesive, smooth, 0.50–7 mm

Mould Maker Gypsum

ebacryl-Laminating-System

Accessoires

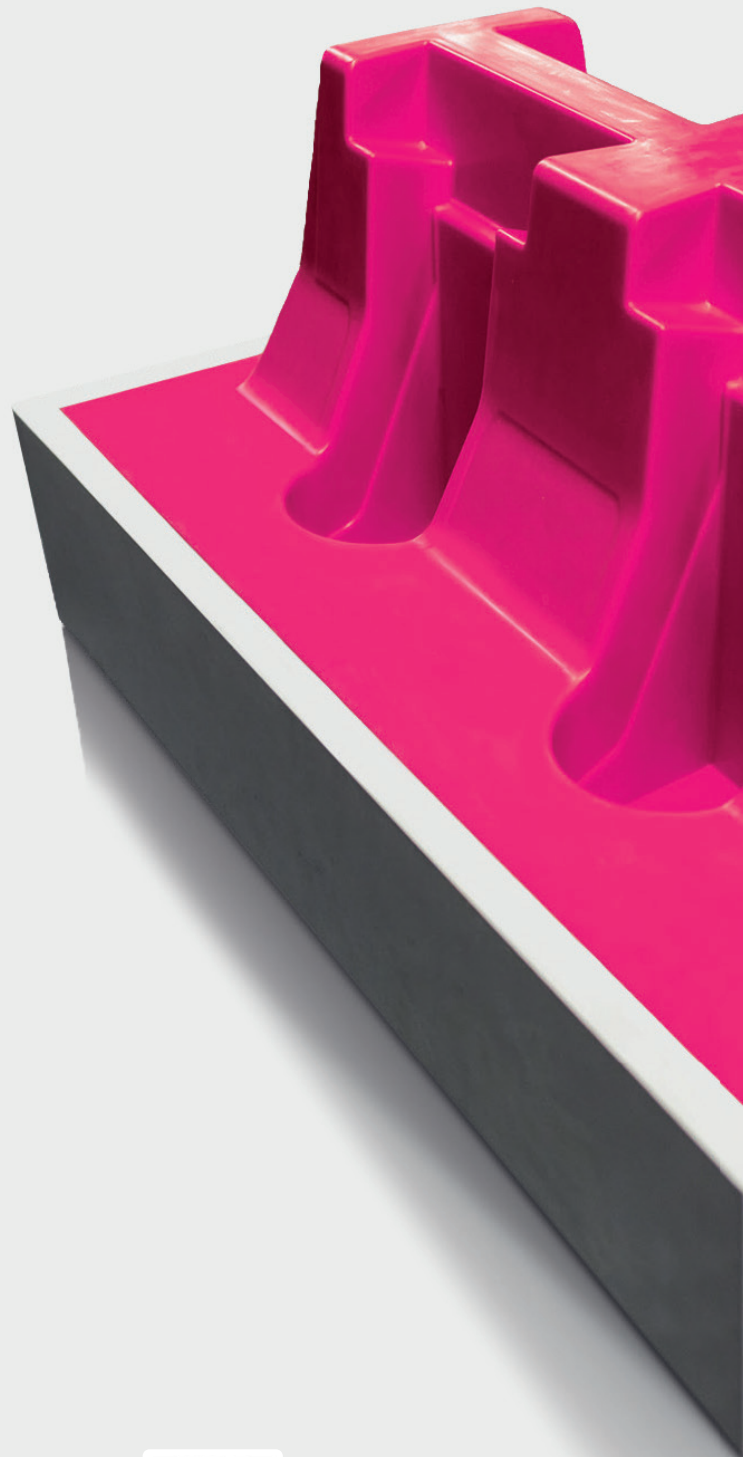
ebaclean, Superplastilin, brush, mixing cups, AD 51 superglue, gloves, taps, containers, mixers

ebalta Customer Management

Erlbacher Str. 100
91541 Rothenburg o.d. Tbr.
Germany
T +49 9861 7007 0
E info@ebalta.com

Distributed by





SHAPING SUSTAINABLE SOLUTIONS.



natureOffice.com/DE-077-559015

ebalta Kunststoff GmbH

Erlbacher Straße 100
91541 Rothenburg ob der Tauber
Germany

www.ebalta.com
info@ebalta.com
T +49 98 61 7007 0



Printed 07/2026