

Basis	Casting resin for climbing holds
Resin	VP GM 1913 L Comp. A
Hardener	VP GM 1913 Comp. B
Colour	whitish

Applications

- climbing holds

Properties

- suitable for production of climbing moulds according EN 12572-3:2017
- abrasion resistant
- free of plasticizer
- good impact strength
- easily dyeable
- very well castable
- unfilled
- contains >15 % raw materials from renewable sources

Processing data

Product		Mixture VP GM 1913 L / Comp. A+B	Resin VP GM 1913 L Comp. A	Hardener VP GM 1913 Comp. B
Colour		whitish	whitish	yellow transparent
Mixing ratio	p. b. w.		100	90
Viscosity at 25°C	mPas	450 ± 100	900 ± 100	40 ± 5
Density at 20°C	g / cm ³	1,10 ± 0,02	1,02 ± 0,02	1,22 ± 0,02
Pot life 170 g / 20°C	-	5 - 7	-	-
Curing time at RT	min.	ca. 60	-	-

Physical data

Properties	Inspect. requirem.	Unit	Value
Flexural strength	EN ISO 178	MPa	110 ± 5
Flexural elongation at break	EN ISO 178	%	no break
Flexural modulus	EN ISO 178	MPa	2700 ± 200
Impact resistance (Charpy)	EN ISO 179	kJ/m ²	70 ± 10
Compressive strength	EN ISO 604	MPa	90 ± 5
Heat resistance (HDT)	DIN EN ISO 75 B	°C	80 ± 3
Shore hardness	DIN ISO 7619-1	Shore D	approx. 80

Sales units (packages)

Units	Comp. A	VP GM 1913 L Comp. A	5,000 kg / 25,000 kg / 200,000 kg
	Comp. B	VP GM 1913 Comp. B	4,500 kg / 22,500 kg / 200,000 kg

Processing instructions

Material and processing temperature between 18°C - 25°C.

Stir up comp.A properly before processing.

Follow exact mixing ratio of resin and hardener

Any residues at stirring rods can be removed with **ebalta** cleaning agent.

Generally casting in silicone moulds. Heat up mould to approx. 30°C to avoid sink marks at surface and covered contours.

In General

VP GM 1913 S is an unfilled White Polyurethane casting resin.

The material is suitable for manual and machine casting of climbing holds according to EN 12572-3:2017 requirements.

Attention: Geometries to be proved by manufacturer.

Easy casting also for fine and rough contours.

Good abrasion resistance for long life cycle of climbing holds as well as good impact resistance.

Comp. A can be dyed by adding pigments. We recommend **ebalta** colour pastes for covering colour coat.

The material does not contain any of the following substances:

asbestos, lead, formaldehyde, mineral tar oil, carbonileum, polychlorinated biphenyles (PCBs)

The casting resin is free of plasticizers and contains >15 % raw material from renewable sources.

Mechanical data based on test specimen postcured for 8 hrs. at 80°C.

Do not expose parts to full chemical and mechanical stress before 7 days after curing at room temperature at 20-23°C. We recommend post curing for 8 hrs. at 80°C.

The maximum exothermal temperature some minutes after potlife is approx. 125°C.

Depending on mould temperature and material has a brittle state about 2 hours after curing where thin areas break easy. This state disappears at the next day.

"Products labeled "VP" are trial products. Technical properties might change slightly.

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.