VILLACRYL

EASY TO USE, COMFORTABLE TO WEAR

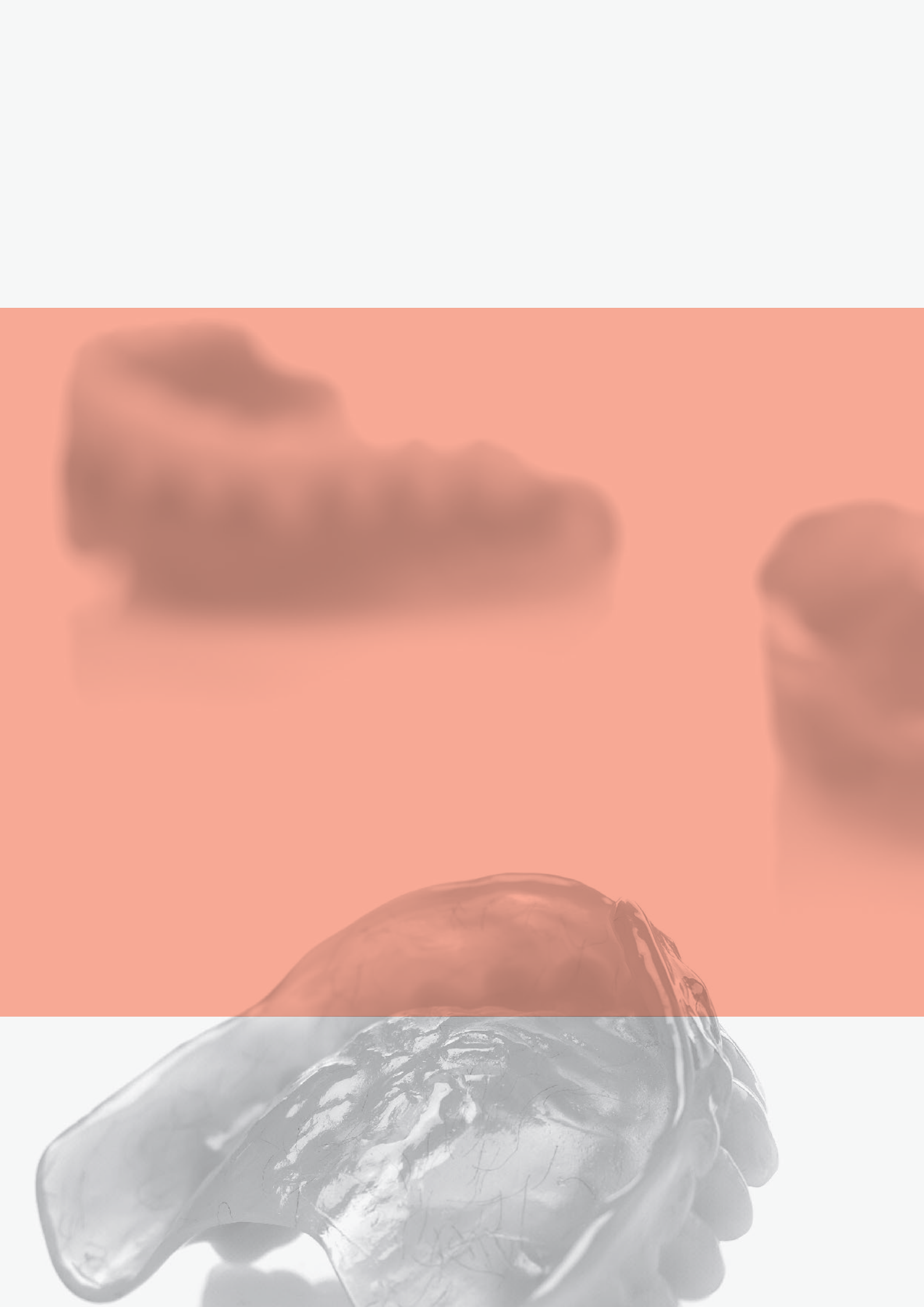Acrylic resins for removable prostheses

Zhermack
Dental

Zhermack

Zhermack has been supplying products and solutions to dental laboratories for over 35 years, drawing on unrivalled know-how acquired in the manufacturing of materials for dental practices.
Starting with duplication silicones and masks, Zhermack has constantly expanded and improved its product range, adding top quality products like dental stones, investments and resins.
Due to an in-depth understanding of international markets and of the needs of dental technicians, Zhermack is able to satisfy the needs of all common processes for preparing fixed and removable prostheses. Zhermack's business model is based on the direct management of all stages of production, from research to the synthesis of raw materials, and is based on validated and controlled processes that guarantee the delivery of products with consistent characteristics and certified quality.
The specialist know-how of the Polish subsidiary, which has been manufacturing and selling acrylic resins for over 25 years, has helped develop the top quality but affordable products that are now sold all over the world. The ability to seize opportunities for synergy, combined with the integration of technologies and processes over time, has made Zhermack a leading name in the manufacture of dental products.

Acrylic resins for removable prostheses

Constant research, continuous improvement and years of experience in prosthodontics have enabled Zhermack to develop a system of high quality laboratory solutions that work in synergy to create accurate and aesthetic prostheses. Zhermack's Villacryl resins simplify the work of the lab technician and allow high performance prostheses to be made easily, quickly and cheaply.

The Villacryl line includes various acrylic resin types to satisfy different denture requirements. Users benefit from extended durability, good impact resistance and flexural strength. Different colours and degrees of opacity are also available, with high stability over time and compatibility with soft tissues for greater patient comfort.

The ideal choice for better performance.

Villacryl H Plus and **Villacryl H Rapid FN** are heat-curing acrylic resins, specially formulated for denture bases, removable full or partial prostheses and for the indirect relining of removable prostheses. They are easy to prepare and finish and, thanks to their natural colours, produce highly aesthetic results.
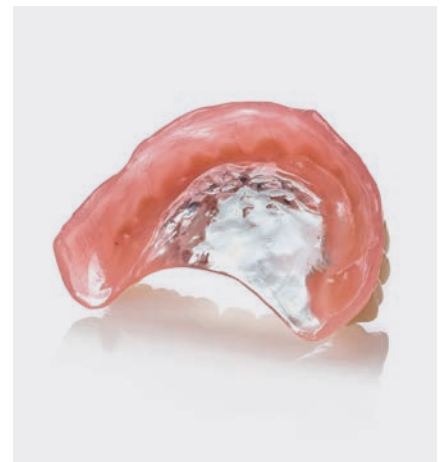

Villacryl H Rapid FN

Characteristics

- Metal free
- Biologically neutral
- High mechanical strength
- Villacryl H Plus comes in 5 colours: pink veined (V4), pink (T4), milk pink veined (V2), transparent (0), dark pink veined (V3)
- Villacryl H Rapid FN: pink veined (V4)

Advantages

- Villacryl H Rapid FN: faster processing (saves about 60 minutes in denture production)
- They can be relined by soft and hard reliners
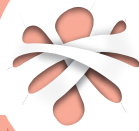- Extended colour stability
- Highly aesthetic dentures

Villacryl H Plus

Villacryl shade guide

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Dental

	Villacryl H Plus	Villacryl H Rapid FN
Mixing ratio	24 g powder / 10.5 ml (10 g) liquid	22 g powder / 10 ml (9.5 g) liquid
Dough time* **(min:sec)**	20:00 - 25:00	8:00 - 10:00
Working time **(min:sec)**	25:00 - 30:00	20:00
Polymerization process **(min:sec)**	60 °C -> 100 °C 30:00 100 °C 30:00 cooling to 30 °C 30:00	80 °C -> 100 °C 10:00 100 °C 20:00 cooling to 30 °C 15:00
Flexural strength	> 65 MPa	> 65 MPa
Solubility	0.8 µg/mm^3 [< 1.6 µg/mm^3]**	0.8 µg/mm^3 [< 1.6 µg/mm^3]**
Sorption	19.1 µg/mm^3 [< 32 µg/mm^3]**	18.7 µg/mm^3 [< 32 µg/mm^3]**
Colours	V2 MILK PINK VEINED V3 DARK PINK VEINED V4 PINK VEINED T4 PINK 0 TRANSPARENT	V4 PINK VEINED

* Times refer to 23 °C - 73 °F
** EN ISO 20795

Combining hot acrylic resins with Zetalabor

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Dental

Villacryl SP

Cold-curing acrylic resin

Villacryl SP is a cold-curing acrylic resin for frameworks, making partial and full prostheses by pouring in hydrocolloids, mask silicones and duplicating silicones. It can also be used for repairs and for indirect relining.

Villacryl SP pouring technique

Characteristics

• Metal free
• Biologically neutral
• 3 colours: pink veined (V4), milk pink veined (V2), transparent (0)

Advantages

• Rapid denture production by pouring with a silicone matrix
• Easy to prepare and finish
• Good masking of metal parts

Villacryl SP

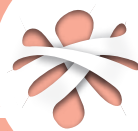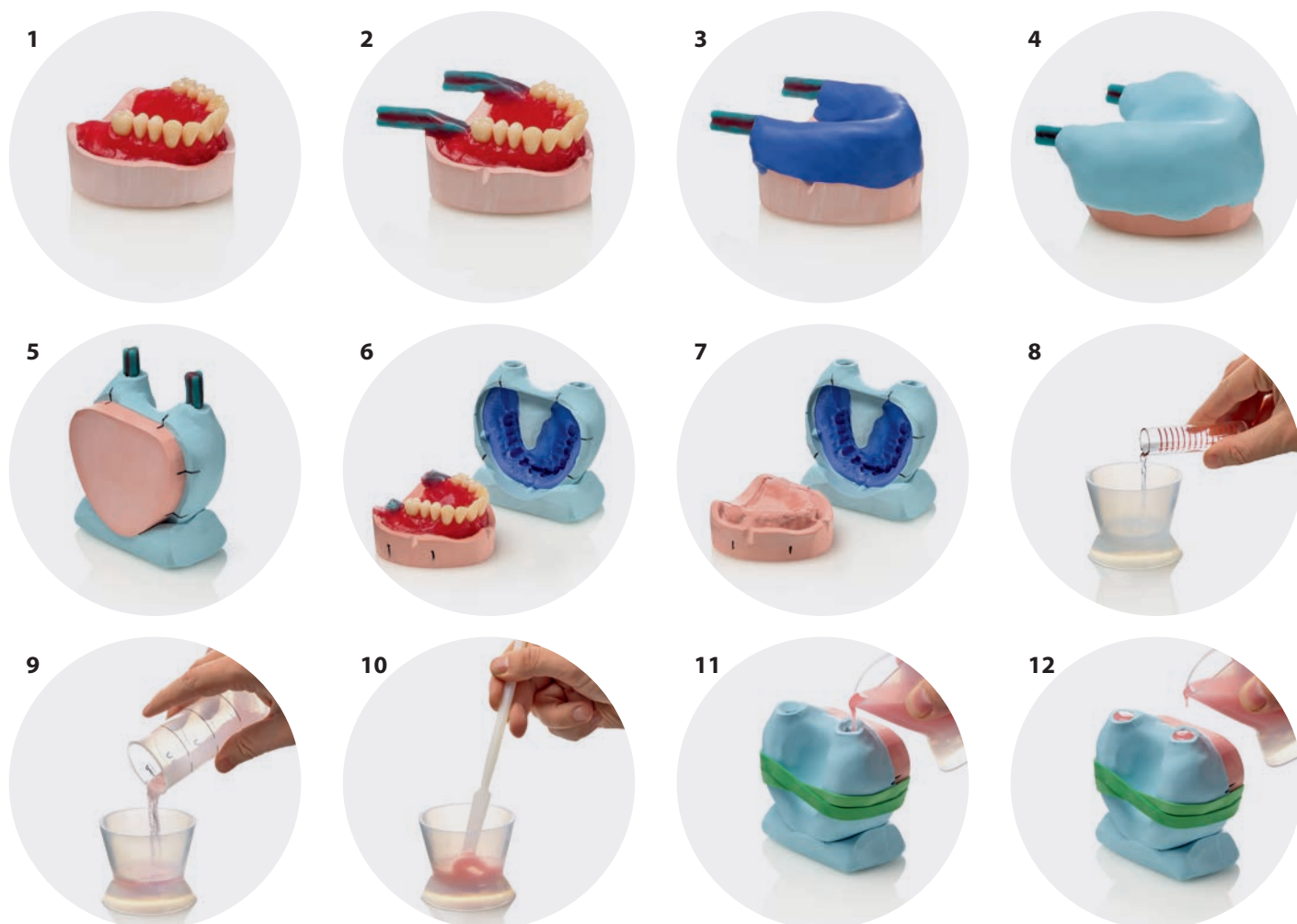|	Villacryl SP
Mixing ratio	10 g powder / 5.2 ml (5 g) liquid 10 g powder / 7 ml (6.7 g) liquid - frameworks
Pouring time* (min:sec)	2:00 4:00 - frameworks
Polymerization process (min:sec)	65 ℃ 20:00 2 bar
Flexural strength	>60 MPa
Solubility	1.4 µg/mm^3 [< 8 µg/mm^3]**
Sorption	18.7 µg/mm^3 [< 32 µg/mm^3]**
Colours	V2 MILK PINK VEINED V4 PINK VEINED 0 TRANSPARENT

* Times refer to 23 ℃ - 73 °F
** EN ISO 20795

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Pouring technique with lab putty silicones

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Pouring technique with duplicating silicones

Zhermack *Dental*

Villacryl S

Self-curing acrylic resin for removable prosthesis repairs

Villacryl S is a self-curing acrylic resin for the repair and indirect relining of removable prostheses.

Villacryl S - Pink veined

Characteristics

- Metal free
- Biologically neutral
- 4 colours: pink veined (V4), pink (T4), milk pink veined (V2), transparent (0)

Advantages

- Easy to prepare and finish
- Fast repairs, thanks to excellent adhesion to heat-curing acrylic resin
- Aesthetic repairs thanks to colour matching with Villacryl H Plus, Villacryl H Rapid and Villacryl SP

Villacryl S and Zetalabor

	Villacryl S
Mixing ratio	10 g powder / 5.3 ml (5 g) liquid
Working time (min:sec)	8:00
Polymerization process (min:sec)	50 - 60 °C 15:00 2 bar
Self-curing time* (min:sec)	about 16:00
Flexural strength	> 60 MPa
Solubility	0.7 µg/mm³ [<8 µg/mm³]**
Sorption	21.8 µg/mm³ [<32 µg/mm³]**
Colours	V2 MILK PINK VEINED V4 PINK VEINED T4 PINK 0 TRANSPARENT

* Times refer to 23 °C - 73 °F
** EN ISO 20795

Villacryl S shade guide

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Villacryl IT is a self-curing acrylic resin for custom trays and bases for wax bite rims.

Villacryl IT - Pink

Characteristics

- Rigid and stable
- Metal free
- 2 colours: green and pink

Advantages

- Easy to prepare and finish
- Ready for use immediately after mixing
- Does not stick to hands

Villacryl IT - Green

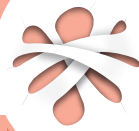|	Villacryl IT
Mixing ratio	21 g powder / 6 ml (5.6 g) liquid
Dough time (min:sec)	0:30 - 0:60
Working time (min:sec)	5:00
Self-curing time* (min:sec)	9:00
Flexural strength	> 35 MPa
Colours	GREEN PINK

* Times refer to 23 °C - 73 °F

Villacryl IT - Green

Villacryl H Plus - Heat-curing acrylic resin

Code	Colour	Packaging
Kits		
V100V2Z09	V2	750 g tub + 400 ml bottle
V100V3Z11	V3	750 g tub + 400 ml bottle
V100V4Z13	V4	300 g tub + 150 ml bottle
V100V4Z12	V4	750 g tub + 400 ml bottle
V100T4Z08	T4	750 g tub + 400 ml bottle
V1000Z02	0	750 g tub + 400 ml bottle
Refill - Powder		
V100V2P18	V2	750 g tub
V100V2P17	V2	2 kg tub
V100V2P10	V2	4 kg tub
V100V4P15	V4	750 g tub
V100V4P13	V4	2 kg tub
V100V4P14	V4	4 kg tub
V1000P04	0	750 g tub
V1000P03	0	4 kg tub
Refill - Liquid		
V100L06		400 ml bottle
V100L05		1 litre bottle

Villacryl H Rapid FN - Heat-curing acrylic resin

Code	Colour	Packaging
Kits		
V260V4Z01	**V4**	750 g tub + 400 ml bottle

Villacryl SP - Cold-curing acrylic resin

Code	Colour	Packaging
Kits		
V120V2Z03	**V2**	500 g tub + 300 ml bottle
V120V4Z04	**V4**	500 g tub + 300 ml bottle
V1200Z01	**0**	500 g tub + 300 ml bottle
Refill - Powder		
V120V4P05	**V4**	500 g tub
Refill - Liquid		
V120L06		300 ml bottle

Villacryl S - Self-curing acrylic resin for removable prosthesis repairs

Code	Colour	Packaging
Kits		
V130V2Z04	**V2**	100 g tub + 50 ml bottle
V130V4Z05	**V4**	100 g tub + 50 ml bottle
V130T4Z03	**T4**	100 g tub + 50 ml bottle
V1300Z01	**0**	100 g tub + 50 ml bottle
Refill - Powder		
V130V4P06	**V4**	1 kg tub
Refill - Liquid		
V130L02		200 ml bottle
V130L07		500 ml bottle

Villacryl IT - Self-curing acrylic resin for custom trays

Code	Colour	Packaging
Kits		
V140ZZ04	🟢	750 g tub + 200 ml bottle
V140RZ03	🔴	750 g tub + 200 ml bottle
Refill - Powder		
V140ZP02	🟢	750 g tub
Refill - Liquid		
V140ZL01		200 ml bottle

Villacryl

Auxiliary materials and accessories

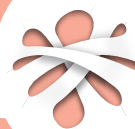| Cod. TP003	Cod. TP002	Cod. TP006
IZO-SOL 250 ml Acrylic-stone isolator	IZO-SOL 1 L Acrylic-stone isolator	Pasta Polerska 150 ml Polishing paste for acrylic and metal

Cod. TP0603
Pumeks 0.6 bag 3 kg Natural powdered pumice Also available: code TP0625, 25 kg bag and code TP0650, 50 kg bag

Zetalabor
C-Silicone for use
with heat-curing and
self-curing resins (page 5)

Elite Stones
and Stodent
Dental stones for
removable prostheses

Platinum
A-Silicones for use with
high curing temperature
thermoplastic materials, heat-
curing resins and self-curing
resins (page 7)

Elite Double
Duplicating A-Silicones for pouring
(page 7)

For more information about our products, visit www.zhermack.com or contact your local representative.

Fulfilling your needs

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