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VILLACRYL
Dental acrylics

DENTAL ACRYLICS

The acrylic resins of the **VILLACRYL** product line facilitate the work of a dental technician and enable the production of high-quality dentures in a simple and quick manner.



The **Villacryl product line** includes acrylic resins that are used in traditional prosthetic techniques. **High strength and fracture resistance** as well as different colours and **degrees of translucency**, high material stability and biocompatibility with soft tissues contribute to greater patient comfort.



If you care about work efficiency,
VILLACRYL
this is the perfect choice!





VILLACRYL H PLUS



DESCRIPTION

Villacryl H Plus is a heat-curing acrylic resin, intended for denture bases, removable full or partial dentures and for the indirect relining of removable dentures. They are easy to prepare and finish, and offers a stable shape, reliability and high quality of work performed.

- Relined by soft and hard materials,
- Colour stability,
- Highly aesthetic,
- Heavy metals free,
- Biologically neutral,
- High mechanical strength.

ADVANTAGES

Technical data

*According to the standard: ISO 20795-1:2013 „Dentistry — Base polymers — Part 1: Denture base polymers”.

Mixing ratio	24 g powder / 10 g (10,5 ml) liquid
Dough time	20-25 min. (temp. 23°C)
Working time	25-30 min. (temp. 23°C)
Polymerization time	30 min. - 60°C → 100°C 30 min. - 100°C 30 min. - air cooling
Flexural strength	> 65* MPa
Solubility	< 1,6* µg/mm ³
Sorption	< 32* µg/mm ³

Colours

- 0** - transparent
- V2** - milk pink veined
- V3** - dark pink veined
- V4** - pink veined
- T4** - pink

Available packagings

Set	Powder
0 V100Z02: 750 g + 400 ml	V100P04: 750 g V100P03: 4 kg
V100V2Z09: 750 g + 400 ml	V100V2P19: 300 g V100V2P18: 750 g V100V2P17: 2 kg V100V2P10: 4 kg
V2	
V3 V100V3Z11: 750 g + 400 ml	-
V100V4Z12: 750 g + 400 ml	V100V4P15: 750 g V100V4P13: 2 kg V100V4P14: 4 kg
V4	
T4 V100T4Z08: 750 g + 400 ml	V100T4P10: 4 kg

Liquid

- V100L06: 400 ml
- V100L05: 1 l



VILLACRYL H RAPID



DESCRIPTION

Villacryl H Rapid is a heat-curing acrylic resin for rapid polymerization that has been specially developed to accelerate the technological process in the dental laboratories. Supports making plates of removable full and partial dentures as well as indirect relining of dentures. Fast polymerization shortens the process time by up to half.

- Saves approximately 60 minutes in denture preparation time,
- Plastic consistency of the acrylic dough during stuffing in a polymerization flask,
- Heavy metals free,
- Biologically neutral.

ADVANTAGES

Technical data

*According to the standard: ISO 20795-1:2013 „Dentistry — Base polymers — Part 1: Denture base polymers”.

Mixing ratio	24 g powder / 10 g (10,5 ml) liquid
Dough time	8-10 min.
Working time	20 min.
Polymerization time	10 min. – 80°C → 100°C 20 min. – 100°C 20 min. – cooling at room temperature
Flexural strength	> 65* MPa
Solubility	< 1,6* µg/mm ³
Sorption	< 32* µg/mm ³

Colours

- 0** - transparent
- V2** - milky pink veined
- V4** - pink veined

Available packagings

Set	Powder
0 V110Z01: 750 g + 400 ml	-
V2 V110V2Z05: 750 g + 400 ml	-
V4 V110V4Z07: 750 g + 400 ml	V110V4P11: 750 g V110V4P08: 2 kg V110V4P09: 4 kg

Liquid

V110L04: 400 ml
V110L02: 1 l



VILLACRYL H RAPID FN



DESCRIPTION

Villacryl H Rapid FN is acrylic material for rapid thermal polymerization that has been specially prepared to accelerate the technological process in the dental and technical laboratories. Using it supports making bases of removable full and partial dentures as well as indirect relining of dentures. Fast polymerization shortens the process time by up to half.

- Saves approximately 60 minutes in denture preparation time,
- Plastic consistency of the acrylic dough during stuffing in a polymerization flask,
- Heavy metals free,
- Biologically neutral.

ADVANTAGES

Technical data

*According to the standard: ISO 20795-1:2013 „Dentistry — Base polymers — Part 1: Denture base polymers”.

Mixing ratio	23 g powder / 10 g (10,5 ml) liquid
Dough time	8-10 min. (temp. 23°C)
Working time	20 min. (temp. 23°C)
Polymerization time	10 min. – 80°C → 100°C 20 min. – 100°C 20 min. – cooling at room temperature
Flexural strength	> 65* MPa
Solubility	< 1,6* µg/mm ³
Sorption	< 32* µg/mm ³

Available packagings

Set	Liquid
V4 V260V4Z01 (750 g + 400 ml)	V260L01 400 ml

Colours

V4 - pink veined



VILLACRYL SP



DESCRIPTION

Villacryl SP is a cold-curing acrylic resin for acrylic parts of frameworks, complete and partial dentures, with the use of hydrocolloid masses, silicones for masks and duplicating silicones. Useful for repair and indirect relining as well.

- Rapid denture production by pouring technique using a silicone mask,
- Easy to prepare and process,
- Good masking of the metal parts of the denture,
- Heavy metals free,
- Biologically neutral.

ADVANTAGES

Technical data

*According to the standard: ISO 20795-1:2013 „Dentistry — Base polymers — Part 1: Denture base polymers”.

	Acrylic parts of partial dentures	Settling infusion dentures
Mixing ratio	10 g powder / 7 ml (6,5 g) liquid	10 g powder / 5,2 ml (5 g) liquid
Dough time	60-90 s (23°C)	30-60 s (23°C)
Polymerization time	50-60°C Minimum 20 min. 2 bar	60°C 30 min. 2 bar
Flexural strength	> 60* MPa	
Solubility	< 8* µg/mm ³	
Sorption	< 32* µg/mm ³	

Colours

- 0** - transparent
- V2** - milky pink veined
- V4** - pink veined

Available advantages

Set	Powder
0 V1200Z01: 500 g + 300 ml	-
V2 V120V2Z03: 500 g + 300 ml	-
V4 V120V4Z04: 500 g + 300 ml	V120V4Z05: 500 g

Liquid

V120L06: 300 ml



VILLACRYL S



DESCRIPTION

Villacryl S is a self-curing acrylic resin intended for the repair and indirect relining of removable dentures. Fully compatible with resins from the Villacryl H Plus line thanks to the matching colour range.

- Easy to prepare and process,
- Quick to manufacture, thanks to the good connection to hot-curing materials,
- The same range of colours as in the Villacryl H Plus and H Rapid line guarantee high aesthetics of the repair,
- Heavy metals free,
- Biologically neutral.

ADVANTAGES

Technical data

*According to the standard: ISO 20795-1:2013 „Dentistry — Base polymers — Part 1: Denture base polymers”.

Mixing ratio	10 g powder / 5,3 ml (5 g)
Dough time	8 min.
Polymerization time	Minimum 20 min. 50-60°C 2 bar
Flexural strength	> 60* MPa
Solubility	< 8* µg/mm ³
Sorption	< 32* µg/mm ³

Available packagings

Set	Powder
0 V1300Z01 100 g + 50 ml	-
V2 V1300V2Z04 100 g + 50 ml	-
V4 V1300V4Z05 100 g + 50 ml	V130V4P06 1 kg
T4 V1300T4Z03 100 g + 50 ml	-

Liquid

V130L02: 200 ml
V130L07: 500 ml

Colours

- 0** - transparent
- V2** - milk pink veined
- V4** - pink veined
- T4** - pink



VILLACRYL IT



DESCRIPTION

Villacryl IT is a self-curing acrylic resin for the fabrication of individual impression trays. Speed and ease work is provided by the formula thanks which material is suitable for the job at the moment after mixing the powder with the liquid.

- Rigid and stable,
- Heavy metals free,
- Easy to prepare and process,
- Works at the moment after mixing,
- Does not stick to hands.

ADVANTAGES

Technical data

Mixing ratio	21 g powder / 6 ml (5,6 g)
Dough time	1 min.
Working time	4-5 min. (23°C)
Polymerization time	8-12 min.
Flexural strength	> 15* MPa

Available packagings

Set	Powder
GREEN V140ZZ04 750 g + 200 ml	V140ZP02 750 g
PINK V140RZ03 750 g + 200 ml	-

Liquid

V140ZL01 200 ml

Colours

- Green
- Pink



VILLACRYL ORTHO



DESCRIPTION

Villacryl Ortho a transparent acrylic resin for low-temperature pressure polymerization intended for the fabrication of removable orthodontic appliances by pouring powder on the model and soaking with monomer ("salt and pepper" method) and for repairing orthodontic appliances.

- Possibility of individual creation of a colour of any saturation,
- Economical, just add colour concentrate to get a variety of colours,
- Low absorption of fluids from the oral cavity,
- Biologically neutral,
- Thanks to the quick gelation the mass does not flows down from the model,
- Perfect transparency of the acrylic resin,
- Easy to prepare and process.

ADVANTAGES

Technical data

*According to the standard: ISO 20795-2:2013 "Dentistry — Base Polymers — Part 2: Orthodontic Base Polymers".

Polymerization time minimum	20 min. 50-60°C 2 bar
Flexural strength	> 50* MPa
Solubility	< 5* µg/mm ³
Sorption	< 32* µg/mm ³

Available packagings

Set	Powder
● V160Z01: 500 g + 250 ml + 3 x 12 ml	V1600P07: 500 g V1600P05: 2 kg V1600P06: 4 kg

Liquid
V160L03: 250 ml
V160L04: 500 ml
V160L02: 1 l

Colours

● - transparent



VILLACRYL ORTHO MIX



DESCRIPTION

Villacryl Ortho MIX is a cold-curing transparent acrylic resin intended for the production of removable orthodontic appliances by the pouring powder on the model and soaking with monomer ("salt and pepper" method) and acrylic dough and for the repair of orthodontic appliances.

- Economical, just add colour concentrate to get a variety of colours,
- High mechanical strength,
- Biologically neutral,
- Versatility of applications in the dental and technical laboratories,
- Easy to prepare and process.

ADVANTAGES

Technical data

*According to the standard: ISO 20795-2:2013 "Dentistry — Base Polymers — Part 2: Orthodontic Base Polymers".

Mixing ratio	24 g powder / 10 ml liquid
Dough time	6-7 min.
Working time	Ok. 15 min.
Polymerization time minimum	20 min. 45-55°C 2 bar
Flexural strength	> 50* MPa
Solubility	< 5* µg/mm ³
Sorption	< 32* µg/mm ³

Available packagings

Set
0 V170Z01: 500 g + 250 ml + 3 x 12 ml

Colours

- 0 - transparent

VILLACRYL ORTHO COLOUR CONCENTRATES

DESCRIPTION

Colour concentrates for **Villacryl Ortho** allow you to get any colour of the orthodontic appliance. **8 colours** giving the possibility of creating intermediate colours.

- Possible to individually create colour of any saturation,
- Devices made with Villacryl Ortho with the use of various colour concentrates, have high aesthetic value and colour stability.

ADVANTAGES

Colours

- **V1809P08:** blue 50 ml
- **V1808P07:** light green 50 ml
- **V1807P06:** dark green 50 ml
- **V1806P05:** purple 50 ml
- **V1805P04:** raspberry 50 ml
- **V1804P03:** red 50 ml
- **V1803P02:** orange 50 ml
- **V1802P01:** yellow 50 ml



VILLACRYL STC HOT



DESCRIPTION

Villacryl STC HOT a hot-curing acrylic material for the veneering of crowns and bridges as well as temporary restorations.

- Fast polymerization,
- Possibility to make temporary crowns and bridges,
- Possibility of veneering metal structures,
- Naturalness of the restoration,
- Optimum strength and elastic properties,
- Shades based on VITA® ensure a good colour match in the patient's mouth.

ADVANTAGES

Technical data

*According to the standard: ISO 10477:2018 "Dentistry — Polymer-Based Crown and Veneering Materials".

Mixing ratio	2,4 g powder / 1 ml (1 g) liquid
Dough time	8-10 min.
Working time	20 min.
Polymerization time	10 min. - 80 °C → 100°C 30 min. - 100 °C
Solubility	< 7,5* µg/mm ³
Sorption	< 40* µg/mm ³

Colors

According to Vita® Classic

- A1 • A2 • A3 • A3,5 • A4
- B1 • B2
- C2 • C4
- D2

Available packagings

Set	
V210Z11: Villacryl HOT	
A1	V210A1Z01: 80 g + 40 ml
A2	V210A2Z02: 80 g + 40 ml
A3	V210A3Z03: 80 g + 40 ml
A3,5	V210A35Z04: 80 g + 40 ml
B1	V210B1Z06: 80 g + 40 ml
B2	V210B2Z07: 80 g + 40 ml
C2	V210C2Z08: 80 g + 40 ml
C4	V210C4Z09: 80 g + 40 ml
D2	V210D2Z12: 80 g + 40 ml



VILLACRYL STC



DESCRIPTION

Villacryl STC - self-curing acrylic resin for the fabrication of temporary crowns and bridges and the repair of temporary crowns and bridges with acrylic veneers. Powder and liquid form. Initial crown formation and material hardening take place directly in the patient's mouth.

- Maximum curing temperature in the patient's mouth is only 37°C,
- Ease of use in the dentist's office,
- Aesthetic colour shades,
- Low self-curing temperature,
- Short self-curing time,
- Well tolerated by patients,
- Heavy metals free,
- Biologically neutral.

ADVANTAGES

Technical data

Mixing ratio	2 g powder / 1,0 ml (1,0 g) liquid
Dough time	30 s
Working time	90 s
The polymerization process in the patient's mouth	4 min.
Polymerization time	15 min. - 50-65°C with the addition of a hardener 2 g / 200 ml water
Max. temperature during polymerization in mouth	37°C

Available packagings

Zestaw

V200Z05 powder 3 x 20 g, liquid 40 ml, hardener 40 g

Colours

(the closest to the VITA® **A-1, A-3, A-4** shades)

- 1
- 2
- 3



VILLACRYL HARD



DESCRIPTION

Villacryl Hard - cold-curing acrylic material intended for temporary relining of dentures directly in the patient's mouth. Thanks to the low temperature polymerization is fully safe for the patient.

- Low polymerization temperature in the patient's mouth,
- Convenient for use in a dentist's office,
- Easy to prepare and process,
- Enables quick denture relining,
- Bonds well with the denture base,
- Provides the patient comfort of using the denture,
- Heavy metals free,
- Biologically neutral.

ADVANTAGES

Technical data

Mixing ratio	2,35 g powder / 1,5 ml (1,3 g) liquid
Dough time	90 s
Polymerization process in the patient's mouth	2 min.
Polymerization time according to the instructions for use	30 min. - 50-60°C with the addition of a hardener 2 g / 200 ml
Surface hardness	72 Shore'D

Available packagings

Set

V190Z02 60 g + 40 ml + 10 ml

Colours

- Pink

ACRYLIC Q&A

1. Acrylic material does not polymerize

Each resin is designed to obtain specific parameters after the polymerization process. In order for the acrylic resin to polymerize well, the manufacturer's recommendations should be followed: ratio of powder to liquid and the parameters of the polymerization process, such as time and temperature, which are specified in the instructions for use of each product.

2. The waiting time for the cake is too long

The times stated in the instructions for use refer to the mixing ratio of the powder and liquid at room temperature (23°C). Follow the recommended mixing ratios and bear in mind that the temperature of the components and the environment has an influence on the first phases of polymerization of the resin. The lower temperature increases and the higher temperature shortens the waiting time for the cake.

3. Incorrect denture color

The color change of the acrylic material may be due to the wrong proportion of powder and liquid during preparation for the procedure. White streaks appearing after handing over the denture to the patient result from improper kneading of the acrylic dough with wet or cream-coated hands. To avoid this problem usage of HDPE gloves is recommend.

4. Discoloration resulting from the usage of dentures

Discoloration of the restorations during use by the patient results from improper care of the denture. Sludge from smoking, drinking coffee, dyes contained in consumed meals and even medications reduce the aesthetics of the denture. To prevent this, the denture should be perfectly polished to reduce the adhesion and sorption of substances from the oral cavity. Additionally, the patient must not use aggressive agents for cleaning dentures containing oxidizing substances, as this will whiten the color of the restoration.

5. Formation of a porous structure

This problem concerns a situation in which the process of making the restoration is disturbed and may appear at many stages of the procedure. In order to avoid pores in the structure of acrylic resin, the manufacturer's instructions regarding the procedure must be strictly followed. Possible causes of pores include:

- Incorrect mixing ratio of liquid and powder,
- Incorrect process of pressing the acrylic dough in the form under the hydraulic press,
- Incorrect parameters of time and temperature of the polymerization process,
- Too little acrylic dough in the flask,
- Model too dry or made of unsuitable plaster.

6. Raising the height of the occlusion

The appropriate height of the occlusion is the basis of a well-made prosthetic restoration. To avoid lifting it, follow the manufacturer's recommendations regarding the pressing time of the acrylic dough and its consistency when stuffing it into the flask. Important elements are also: the use of airtight polymerization flasks and ensuring that each element fits together before stuffing or pouring acrylic into the flask or mask.

ACRYLIC Q&A

7. The base does not fit on the model

The ill-fitting of the denture base from the model is caused by the polymerization contraction of the material. This can happen when the ratio of powder and liquid is wrong and the polymerization process is not correct. Particular attention should be paid to the temperature and time of heating and cooling the can, in accordance with the manufacturer's instructions in the instructions for use.

8. Acrylic teeth fall out of the denture

The teeth should be properly prepared for the polymerization process. The mucosal surface of the teeth should be roughened with a suitable cutter or stone. Each tooth must be thoroughly cleaned of wax residues during the process of scalding the wax. Before stuffing or pouring acrylic into the flask or mask, it is recommended to wipe the mucosal surfaces of acrylic teeth with monomer.

9. The denture often breaks

Each Everall7 acrylic resin has mechanical properties that exceed the minimum requirements of ISO standards. Problems with reduced mechanical properties may result from incorrect powder and liquid ratios, incorrect polymerization process or incorrect design of the thickness of denture. The individual anatomical features of the patient's prosthetic field or the points of trauma leading to cracking of the prosthesis are also important.

10. The prosthesis does not fit in the patient's mouth

The lack of fitting of the denture may result from a shrinkage of the material, or the problem may arise at the stage of improperly taken or stored impression. It is also important to properly prepare the impression for casting the model. In order to avoid disturbances in the dimensions or surface of the plaster model, particular attention should be paid to: the time from taking the impression to casting it, as well as selecting an appropriate disinfectant, safe for the material used to take the impression. Remnants of saliva and blood can disturb the prosthetic field, resulting in a poor fit of the restoration in the mouth.

11. Patient allergic reactions

Each acrylic resin, due to its chemical composition, can lead to an allergic reaction of the patient manifested by irritation, burning or dry mucosa. This is due to the presence of residual monomer after the polymerization process. If there is information about the patient's sensitivity to residual monomer, denture should be made out of Villacryl Thermo Press thermoplastic resin for dentures. To additionally minimize the possibility of an allergic reaction, you should:

- Strictly follow the ratio of powder and liquid,
- Follow the polymerization time and temperature of the process,
- Before handing over to the dentist, the finished denture should be soaked in water at room temperature for 48 hours.

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