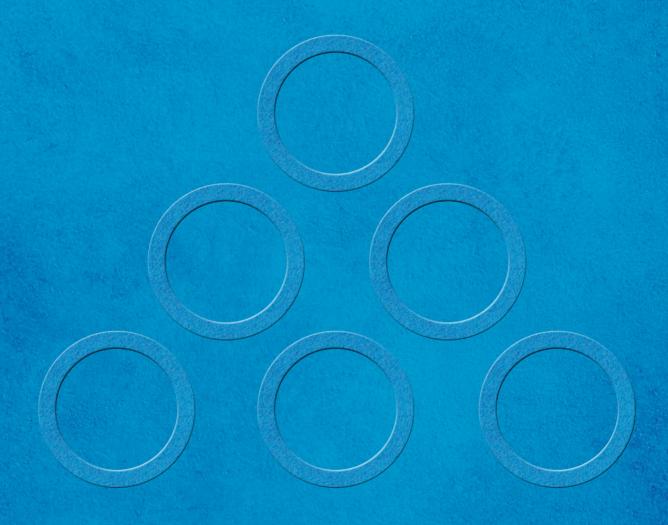
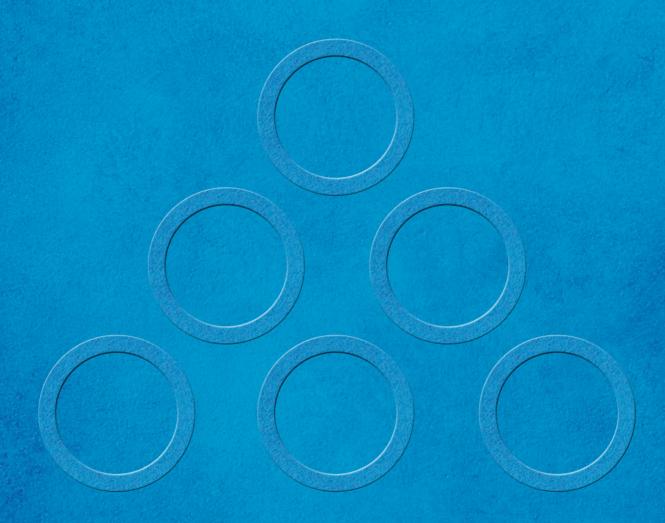
PRODUCTS 2021/2022



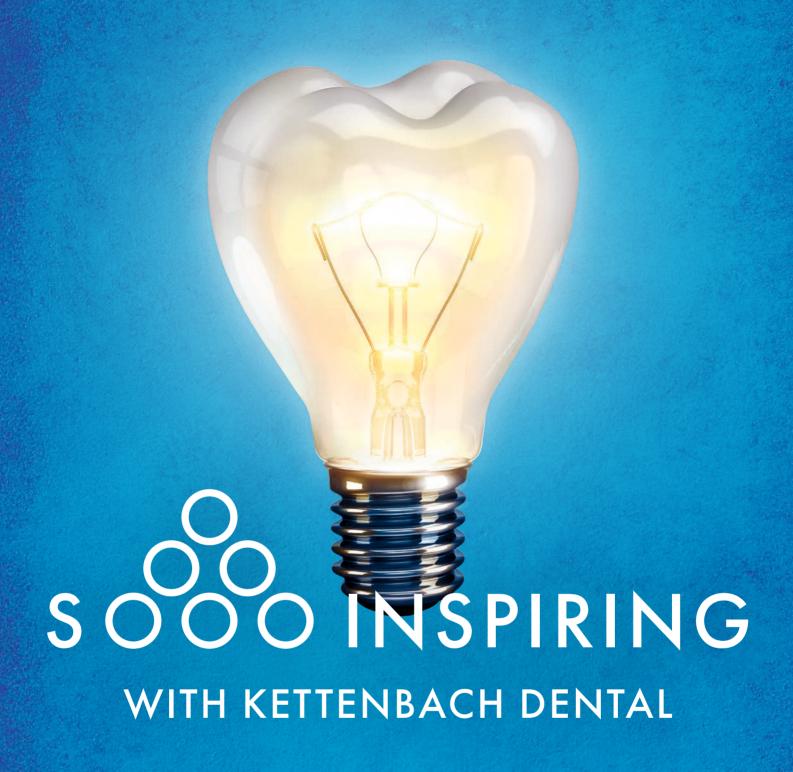






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CAN THIS BE DONE EVEN MORE INTELLIGENT?

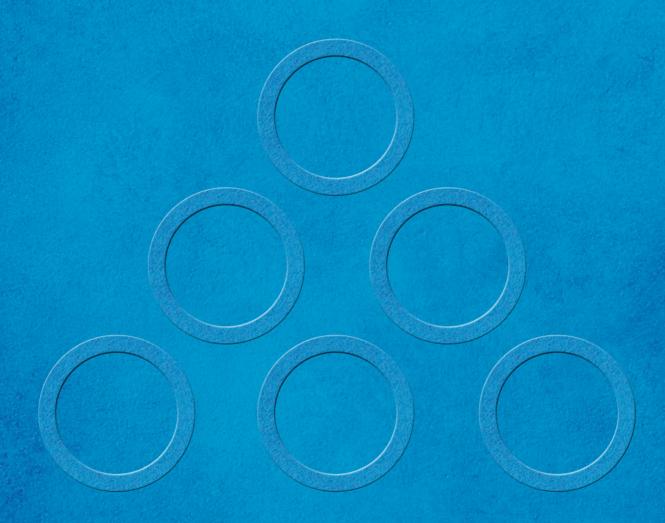
Our researchers and developers at Kettenbach Dental will not rest until the outcome is as perfect as your aspiration.

This has been driving us for over 75 years to produce exceptional innovations such as Panasil®, Identium®, Futar®, and Visalys®.

We want to simplify your life with product innovations "Made in Germany" – Simply intelligent!

Kettenbach Dental

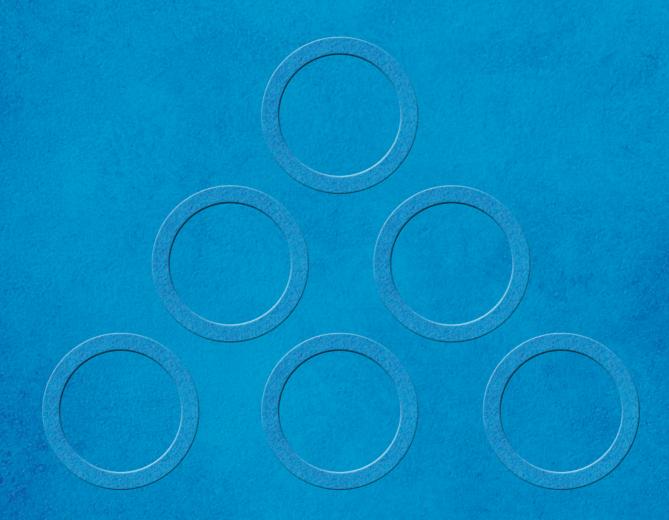






WE HAVE BEEN THINKING ABOUT PROGRESS FOR MORE THAN 75 YEARS. WITH EVERY SINGLE ONE OF OUR INNOVATIONS.

| 2021 | Change of the primary packaging to a new 50 mL cartridge system which allows to use the impression materials Futar®, Silginat®, Panasil® and Identium® even more economical and effective. |
|------|--|
| 2019 | Introduction of Visalys® CemCore, the 2-in-1 composite: the dual-curing, adhesive material can be used for both cementation and core build-up, providing an optimized adhesive bond while also having outstanding stability. |
| 2016 | Introduction of Futar® Cut & Trim Fast, the latest bite registration material from the successful Futar® family that ensures even more efficient workflows in your practice. |
| 2015 | Introduction of Visalys® Core, the first core build-up material with the unique Active-Connect-Technology for a reliable adhesive bond with single-step and multi-step adhesives. |
| 2012 | Introduction of Visalys® Temp which sets the new benchmark for materials for temporary crowns and bridges. |
| 2009 | Introduction of Identium®. A new impression material that revolutionizes the one-step impression technique: Vinylsiloxanether®. |
| 2008 | Introduction of Silginat®, a new addition-curing silicone specifically for alginate indications. |
| 2006 | Introduction of Panasil® initial contact, the first A-silicone with very high hydrophilicity. |
| 2002 | Introduction of Panasil® binetics Putty. |
| 1998 | Launch of Mucopren® Soft, permanently soft relining material. |
| 1994 | Introduction of a new bite registration material based on silicone that subsequently achieves a high market position worldwide: Futar®. |
| 1982 | Market launch of Panasil®, a new class of impression material based on addition-curing silicones. |
| 1955 | Introduction of Lastic® 55, the first impression silicone in the world. |
| 1944 | Founding of Kettenbach Dental by August Kettenbach in Wissenbach on 2 May. |







IMPRESSION MATERIALS

SILGINAT®

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PANASIL®

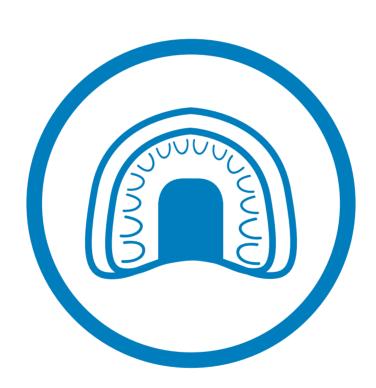
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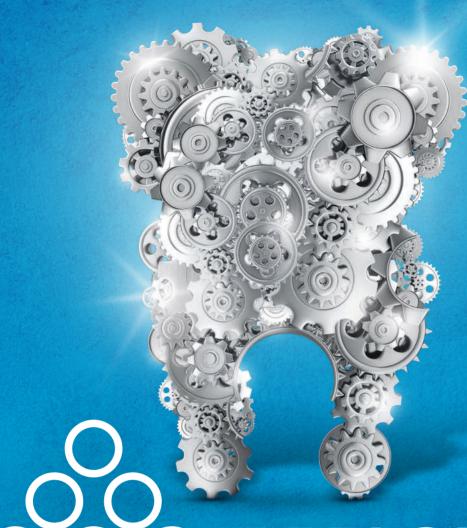
IDENTIUM®

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FUTAR®

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SOO EFFICIENT IS SILGINAT®



SILGINAT®, STRAWBERRY





Silginat® is a medium-viscosity, elastomeric A-silicone available in a large 5:1 cartridge and in the new 50 mL cartridge was specifically developed for alginate applications (such as anatomical impressions).



Stable in long-term storage and suitable for multiple pouring

 Multiple impressions created for a situation is no longer necessary

High precision thanks to the advantages of an A-silicone

- O Alginate-like consistency and low breaking strength
- O The material is thixotropic but still flows
- O It is dimensionally stable with high resilience
- Scannable

Standardized, hygienic processes

O Clean, simple and safe application with the 5:1 jumbo cartridge as well as with the new 50 mL cartridge system for reproducible results in terms of a quality management system

Modern setting characteristics

- O Short intraoral setting time (90 seconds) for rapid workflows
- The anatomical impression is prepared in just 3 minutes
- O Shore hardness A 45 for easy releasing

Economical and safe - the new 50 mL cartridge system

- O Economical: 20 % less residue compared to the previous green mixer (Ø 6.5 mm) and no material waste before the first application
- O Intuitive: effortless and simple handling without any training



Silginat® I Silginat® Strawberry medium viscosity

- Anatomical impressions
- Preparing temporary crowns and bridges
- Opposing jaw impressions
- Orthodontic tasks
- Models for case studies
- Preparation of models for constructing splints
- Construction of simple removable prosthetic restorations
- Highly recommended
- Recommended









Partial impression trays: Multi Trays

Mixing tips, blue

Dynamic mixers

Applyfix 4 dispensing gun

Sympress dispenser



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| Silginat [®] | 760 mL Refill pack 5:1 3 2 x 380 mL cartridges | 300 mL Normal pack 1:1 6 x 50 mL cartridges, 6 mixing tips | 1200 mL Bulk pack 1:1 24 x 50 mL cartridges |
|-----------------------------|--|--|--|
| Silginat® | REF 14713 | REF 1384611 | REF 1384711 |
| Silginat® Strawberry | REF 14715 | REF 1382611 | REF 1382711 |

Not available in all markets.



SOOCOMFORTABLE IS IDENTIUM®



IDENTIUM®

Identium® combines the benefits of two established impression materials (A-silicone and polyether) working in perfect harmony. The innovative material class Vinylsiloxanether® is available in high,

medium, and low viscosity with normal and fast setting variants for monophase and double-mix impressions. This enables all essential impression techniques to be covered with a single material.

Double-mix impressions

| Tray material | Mixing | Working time at 23 °C | Intraoral working time | Intraoral setting time | Total setting time* | Page |
|----------------------------------|--------|-----------------------|------------------------|------------------------|---------------------|------|
| Identium® Heavy | | 2:00 min. | _ | 2:30 min. | 4:30 min. | 15 |
| Identium® Heavy Fast | | 1:15 min. | _ | 2:15 min. | 3:30 min. | 15 |
| Identium® Medium | | 2:00 min. | 1:20 min. | 2:30 min. | 4:30 min. | 14 |
| Identium® Medium Fast | | 1:15 min. | 0:40 min. | 2:15 min. | 3:30 min. | 14 |
| Correction material (Light body) | | | | | | |
| Identium® Light | | 2:00 min. | 1:20 min. | 2:30 min. | 4:30 min. | 16 |
| Identium® Light Fast | | 1:15 min. | 0:40 min. | 2:15 min. | 3:30 min. | 16 |
| | | | | | | |

^{*} Total setting time (removal from the mouth) from the start of the mixing.

Monophase, fixation and pick-up impressions

| Tray material | Mixing | Working time at 23 °C | Intraoral working time | Intraoral setting time | Total setting time* | Page |
|-----------------------|--------|-----------------------|------------------------|------------------------|---------------------|------|
| Identium® Medium | | 2:00 min. | 1:20 min. | 2:30 min. | 4:30 min. | 14 |
| Identium® Medium Fast | | 1:15 min. | 0:40 min. | 2:15 min. | 3:30 min. | 14 |

^{*} Total setting time (removal from the mouth) from the start of the mixing.

Functional impressions

| Tray material | Mixing | Working time at 23 °C | Intraoral working time | Intraoral setting time | Total setting time* | Page |
|------------------|--------|-----------------------|------------------------|------------------------|---------------------|------|
| Identium® Medium | | 2:00 min. | 1:20 min. | 2:30 min. | 4:30 min. | 14 |

^{*} Total setting time (removal from the mouth) from the start of the mixing.

Identium® Medium medium viscosity

Monophase impressions

Fixation impressions • Functional impressions • Pick-up impressions Double-mix impressions

• Reline impressions

Highly recommended

Recommended

IDENTIUM® MEDIUM



Identium® Medium is a medium-viscosity precision impression material made of Vinylsiloxanether® for monophase impressions. Thanks to its high final hardness it is particularly well suited to implant impressions.



Greatest precision

- O Perfect flow even with residual moisture enables the preparation margins to be reliably determined.
- O The short intraoral setting time means there is less chance of deformation during the setting phase.

Secure retention

O The high final hardness (Shore A 60) ensures precise reproduction and secure retention of the implant posts and primary crowns.

More comfortable for user and patient

- Easy removal from the mouth thanks to high elasticity
- O Low risk of breakage in model fabrication
- Neutral taste and smell
- O Short intraoral setting time
- O Considerably reduced gag reflex and movement

Time saving

• After just a total of 3 minutes and 30 seconds, the impression can be removed from the patient's mouth (Identium® Medium Fast).



Identium® Adhesive Dynamic mixers Sympress dispenser



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Identium®

380 mL **Intro pack** 5:1 **□**

380 mL cartridge, 10 dynamic mixers, 10 mL adhesive, 1 application syringe

760 mL Refill pack 5:1 $2 \times 380 \text{ mL cartridges}$

> REF 14717 REF 14719

Medium Medium Fast REF 14716





IDENTIUM® HEAVY



Identium® Heavy is a high-viscosity monophase precision impression material made of Vinylsiloxanether® that delivers particularly good results in the double-mix technique thanks to the optimal pressure build-up when combined with Identium® Light.



Greatest precision

- O Perfect flow even with residual moisture enables the preparation margins to be reliably determined.
- O The short intraoral setting time means there is less chance of deformation during the setting phase.

More comfortable for user and patient

- Easy removal from the mouth thanks to high elasticity
- O Low risk of breakage in model fabrication
- O Neutral taste and smell
- O Short intraoral setting time
- O Considerably reduced gag reflex and movement

Time saving

O After just a total of 3 minutes and 30 seconds, the impression can be removed from the patient's mouth (Identium® Heavy Fast).



Identium® Heavy high viscosity

- Double-mix impressions
- Fixation impressions
- Functional impressions
- Pick-up impressions
- Highly recommended
- Recommended







Identium® Adhesive Dynamic mixers Sympress dispenser





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Identium®

380 mL **Intro pack** 5:1 **□ 3**

380 mL cartridge, 10 dynamic mixers, 10 mL adhesive, 50 mL Light body, 8 red mixing tips, 8 transparent intraoral tips

REF 1472411

760 mL **Refill pack** 5:1 2 × 380 mL cartridges

> REF 14725 REF 14727

Heavy Heavy Fast



Not available in all markets

15





IDENTIUM® LIGHT



Identium® Light is a low-viscosity precision impression material made of Vinylsiloxanether® that produces incredibly detailed impressions thanks to its high flowability even into the narrowest of sulci and even in extreme situations thanks to its high hydrophilicity.



Greatest precision

- O Perfect flow even with residual moisture enables the preparation margins to be reliably determined.
- O The narrowest of sulcus gaps are also precisely recorded.
- O The short intraoral setting time means there is less chance of deformation during the setting phase.

More comfortable for user and patient

- The extra-long intraoral working time of 80 seconds (Identium® Light) means the material can be comfortably applied even with extensive prosthetic restorations.
- O Neutral taste and smell
- O Short intraoral setting time

Time saving

• After just a total of 3 minutes and 30 seconds, the impression can be removed from the patient's mouth (Identium® Light Fast).

Economical and safe - the new 50 mL cartridge system

- O Economical: no material waste before the first application
- O Intuitive: effortless and simple handling without any training



Identium® Light low viscosity

- Double-mix impressions
- Reline impressions
- Highly recommended
- Recommended









Identium® tray materials
Mixing tips, red
Applyfix 4 dispensing gun

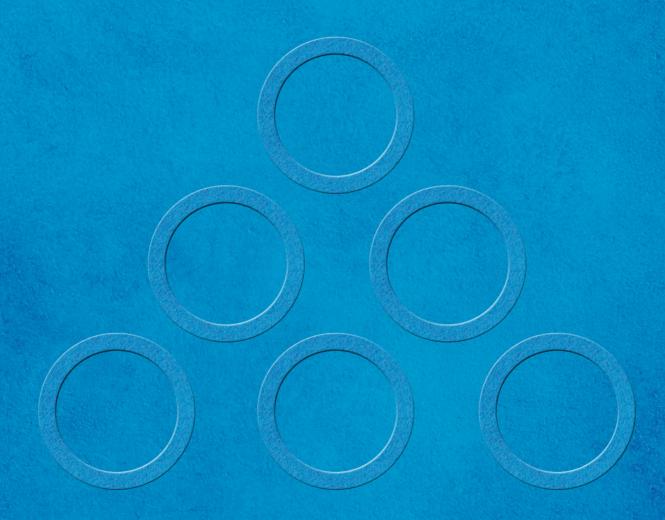


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| Identium [®] | 100 mL Normal pack 1:1 → 1 2 × 50 mL cartridges, 8 red mixing tips |
|-----------------------|---|
| Light Fast | REF 1370111 REF 1371111 |









PANASIL®

Precise with no compromises, that's what **Panasil®** stands for. The range includes the right product for all impression techniques and indications. Thanks to its impressive product properties and coordinated product combinations, impressions can even be taken

in moist environments and still deliver exceptionally precise results. The Panasil® family is available in low, medium, and high viscosity precision impression materials as well as a kneadable material all based on A-silicone.

Two-step impressions

| Tray material | Color | Mixing | Shore Hardness | Workin at 23 °C | g time intraoral | Intraoral setting time | Total setting time* | Page |
|---------------------------------------|-------|--------|-------------------|------------------------|----------------------------|------------------------|---------------------|------|
| Panasil® binetics Putty Fast | | | A 63 | 1:30 min. | - | 2:30 min. | 4:00 min. | 21 |
| Panasil® tray Fast Heavy | | | A 62 | 1:20 min. | - | 2:00 min. | 3:20 min. | 23 |
| Panasil® tray Fast Heavy | | | A 62 | 1:00 min. | _ | 2:00 min. | 3:00 min. | 23 |
| Panasil® Putty Fast | | ٦٤ | A 66 | 1:30 min. | _ | 2:00 min. | 3:30 min. | 22 |
| Panasil® Putty | | ٥٤ | A 66 | 2:00 min. | _ | 2:00 min. | 4:00 min. | 22 |
| Correction material (Light body) | | | | | | | | |
| Panasil® initial contact X-Light | | | A 46 | 1:30 min. | 1:00 min. | 2:30 min. | 4:00 min. | 25 |
| Panasil® initial contact X-Light Fast | | | A 46 | 1:00 min. | 0:30 min. | 2:00 min. | 3:00 min. | 25 |
| Panasil® contact plus X-Light | | | A 46 | 2:00 min. | 1:00 min. | 2:00 min. | > 2:00 min. | 26 |

^{*} Total setting time (removal from the mouth) from the start of the mixing.



PANASIL®

Double-mix impressions/ Sandwich impressions

| Tray material | Color | Mixing | Shore Hardness | Workin at 23 °C | g time intraoral | Intraoral setting time | Total setting time* | Page |
|-------------------------------------|-------|--------|-------------------|------------------------|---------------------|------------------------|---------------------|------|
| Panasil® binetics Putty Soft | | | A 56 | 2:00 min. | _ | 3:00 min. | 5:00 min. | 21 |
| Panasil® Putty Soft | | ١ | A 60 | 2:00 min. | - | 2:00 min. | 4:00 min. | 22 |
| Panasil® tray Soft Heavy | | 目有 | A 55 | 2:00 min. | _ | 2:00 min. | 4:00 min. | 23 |
| Panasil® tray Soft Heavy Fast | | | A 55 | 1:00 min. | _ | 2:00 min. | 3:00 min. | 23 |
| Panasil® monophase Medium | | 日本 | A 60 | 2:00 min. | 1:00 min. | 2:00 min. | 4:00 min. | 24 |
| Correction material (Light body) | | | | | | | | |
| Panasil® initial contact Light | | | A 46 | 1:30 min. | 1:00 min. | 2:30 min. | 4:00 min. | 25 |
| Panasil® initial contact Light Fast | | | A 46 | 1:00 min. | 0:30 min. | 2:00 min. | 3:00 min. | 25 |
| Panasil® initial contact Regular | | A | A 46 | 1:30 min. | 1:00 min. | 2:30 min. | 4:00 min. | 25 |
| Panasil® contact two in one Light | • | | A 46 | 2:00 min. | 1:00 min. | 2:00 min. | > 2:00 min. | 26 |

^{*} Total setting time (removal from the mouth) from the start of the mixing.





Monophase, fixation and pick-up- and functional impressions

| Tray material | Color | Mixing | Shore Hardness | Workin at 23 °C | 3 | Intraoral setting time | Total setting time* | Page |
|---------------------------|-------|--------|-------------------|------------------------|-----------|------------------------|---------------------|------|
| Panasil® monophase Medium | | 周月 | A 60 | 2:00 min. | 1:00 min. | 2:00 min. | 4:00 min. | 24 |

^{*} Total setting time (removal from the mouth) from the start of the mixing.







PANASIL® BINETICS PUTTY FAST AND PUTTY SOFT





Panasil® binetics Putty is a genuinely kneadable putty based on A-silicone for precision impressions available in a 5:1 jumbo cartridge (380 mL).



Easy processing

- O Good trimming properties thanks to the appropriate hardness
- Easy extrusion from the convenient 5:1 cartridge with all common mixing devices
- O Consistent quality thanks to exact, reproducible dosage from the convenient jumbo cartridge

Security thanks to precision

- O High viscosity for sufficient pressure build-up
- Easy removal from the mouth based on ideal elasticity
- O Dimensionally stable elastic recovery
- O Low salivation thanks to odor and taste neutrality

Always the right product

- O Panasil® binetics Putty Fast short intraoral setting time (end of setting 4 min.), high final hardness (Shore A 63)
- O Panasil® binetics Putty Soft reduced final hardness (Shore A 56) for even easier removal from the mouth



Panasil® binetics Putty Fast short intraoral setting time

- Two-step impressions
- Foil impressions

Panasil® binetics Putty Soft reduced final hardness

- One-step putty-wash impressions
- Functional margin contouring
- Two-step impressions
- Foil impressions
- Highly recommended
- Recommended









Panasil® light body materials

Panasil® Adhesive

Dynamic mixers

Sympress dispenser



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Panasil®

380 mL cartridge, 10 dynamic mixers

760 mL **Refill pack** 5:1

2 × 380 mL cartridges

binetics Putty Fast



REF 14700

REF 14701 REF 14703

binetics Putty **Soft**

REF 14702

PANASIL® PUTTY FAST, PUTTY SOFT AND PUTTY





Panasil® Putty is a classic kneadable putty based on A silicone for precision impressions. After over 35 years of steady development, the kneading putty is still a reliable quality material.



Easy processing

- Accustomed handling without additional equipment
- Smooth kneading without sticking

Precise and cost effective

- O Hardness and elasticity in harmony for easy removal from the mouth
- O Extra high dynamic pressure for optimal flow
- O Dimensionally accurate
- Outstanding value for money

Always the right product

- O Panasil® Putty Soft reduced final hardness (Shore A 60) for even easier removal from the mouth
- O Panasil® Putty Fast fast setting (end of setting 3:30 min.)
- O Panasil® Putty final hardness Shore A 66 (end of setting 4:00 min.)





Panasil® Putty Fast short intraoral setting time

- Two-step impressions
- Foil impressions

Panasil® Putty Soft reduced final hardness

- One-step putty-wash impressions
- Functional margin contouring
- Two-step impressions
- Foil impressions

Panasil® Putty high dynamic pressure

- Two-step impressions
- Foil impressions
- One-step putty-wash impressions
- Functional margin contouring
- Highly recommended
- Recommended







Panasil® light body materials Panasil® Adhesive

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Panasil®

Intro pack 1:1 200 mL catalyst paste,

200 mL base paste, 2 dispensing scoops

900 mL Normal pack 1:1 1 × 450 mL catalyst paste, 1 × 450 mL base paste, 2 dispensing scoops

3600 mL **Economy pack** 1:1 4 × 450 mL catalyst paste,

Putty Fast

Putty





REF 11140 REF 11120

REF 11141

REF 11101

4 × 450 mL base paste, 2 dispensing scoops REF 11143

REF 11121

REF 11123 REF 11103

PANASIL® TRAY FAST HEAVY AND SOFT HEAVY





Panasil® tray is a high-viscosity, stiff Heavy body based on A-silicone for precision impressions available in the 5:1 jumbo cartridge and in the new 50 mL cartridge.



Easy processing

O Consistent quality thanks to exact, reproducible dosage from the convenient jumbo cartridge

Security thanks to precision

- O High dynamic pressure
- O Dimensionally stable elastic recovery
- O Good trimming properties of the tray Fast Heavy material, so it is also suitable for two-step impressions

Always the right product

- O Panasil® tray Fast Heavy short intraoral setting time (end of setting 3:20 min.), high final hardness (Shore A 62)
- O Panasil® tray Soft Heavy reduced final hardness (Shore A 55) for even easier removal from the mouth

Economical and safe - the new 50 mL cartridge system

- O Economical: no material waste before the first application
- O Intuitive: simple handling without any training





Panasil® tray Fast Heavy short intraoral setting time

- Two-step impressions
- Double-mix impressions

Panasil® tray Soft Heavy reduced final hardness

- Double-mix impressions
- Functional impressions
- Highly recommended
- Recommended





Panasil® light body materials Panasil® Adhesive

Mixing tips, blue

Dynamic mixers Applyfix 4 dispensing gun

Sympress dispenser



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p. 50

| Panasil [®] | 380 mL Intro pack 5:1 = 380 mL cartridges, 10 dynamic mixers | 760 mL Refill pack 5:1 S 2 × 380 mL cartridges | 100 mL Normal pack 1:1 2 x 50 mL cartridges, 6 blue mixing tips |
|------------------------|--|--|--|
| tray Fast Heavy | REF 14704 | REF 14705 | REF 1355111 |
| tray Soft Heavy | REF 14706 | REF 14707 | REF 1354111 |
| tray Soft Heavy Fast | _ | _ | REF 1356111 |

Not available in all markets 23

IMPRESSION MATERIALS

PANASIL® MONOPHASE MEDIUM





Panasil® monophase Medium is a medium-viscosity monophase impression material based on A silicone for precision impressions. It is available in the convenient 5:1 Jumbo cartridge (380 mL) and in the new 50 mL cartridge and is characterized by a particularly high initial hydrophilicity for precision even in extreme situations.



Precise impressions

- O Strong thixotropy combined with exceptional hydrophilicity enables first-class application.
- O Optimal flow, which also ensures reliability and precision in difficult oral situations.

Rapidly fixed, reliably transferred

- O High final hardness (Shore A 60) allows optimal retention and thus perfect and precise reproduction of primary parts.
- Practical processing and setting time (each 2:00 min.) guarantees you reliability.

Universally applicable

O Just as suitable for preparing crowns/bridges, inlays/onlays, and veneers as for fixation impressions.

Patient-friendly

The odorless and tasteless material with a short intraoral setting time contributes to lower patient stress.

Economical and safe - the new 50 mL cartridge system

- O Economical: no material waste before the first application
- O Intuitive: simple handling without any training



Panasil® monophase Medium medium viscosity

- Monophase impressions
- Fixation impressions
- Functional impressions
- Pick-up impressions
- Double-mix impressions
- Reline impressions
- Highly recommended
- Recommended







Panasil® Adhesive Mixing tips, blue Dynamic mixers Applyfix 4 dispensing gun Sympress dispenser



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760 mL **Refill pack** 5:1 \longrightarrow 2×380 mL cartridges

100 mL **Normal pack** 1:1 \times 2 × 50 mL cartridges, 6 blue mixing tips

REF 1350111

REF 14709

24

PANASIL® INITIAL CONTACT X-LIGHT, LIGHT AND REGULAR





Panasil® initial contact is a Light body based on A silicone with a particularly high initial hydrophilicity for precision impressions — it is ideally matched to the Panasil® tray materials. The three material variants (X-Light - very low viscosity, Light - low viscosity and Regular - medium viscosity) are each available as fast-setting Fast variants — simply always the right product.



Precision

- Optimal flow based on exceptional initial hydrophilicity ensures reliability and precision even in difficult oral situations, e.g. problematic hemostasis.
- O Dimensionally stable elastic recovery

Convenient and simple processing and working

- Fast and easy to apply using all conventional dispensing guns such as Applyfix 4 for impression materials
- Outstanding flowability and highly toxicotropic: flows into narrow gaps and does not drip from the tooth

Economical and safe - the new 50 mL cartridge system

- O Economical: no material waste before the first application
- O Intuitive: simple handling without any training

initial contact Regular





Panasil® initial contact X-Light very low viscosity, purple

- Two-step impressions
- Reline impressions
- Double-mix impressions
- One-step putty-wash impressions

Panasil® initial contact Light low viscosity, light green

- Double-mix impressions
- Reline impressions
- Foil impressions
- Two-step impressions
- One-step putty-wash impressions

Panasil® initial contact Regular medium viscosity, gray

- One-step putty-wash impressions
- Foil impressions
- Double-mix impressions
- Reline impressions
- Highly recommended
- Recommended



Panasil® tray materials
Mixing tips, red
Mixing tips, blue
Applyfix 4 dispensing gun



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| Panasil® | 100 mL Normal pack 1:1 | 500 mL Bonus pack 1:1 10 × 50 mL cartridges, 40 red mixing tips |
|------------------------------|-------------------------------|--|
| initial contact X-Light | REF 1340111 | REF 2830011 |
| initial contact X-Light Fast | REF 1346111 | _ |
| initial contact Light | REF 1341111 | REF 2831011 |
| initial contact Light Fast | REF 1347111 | - |

Not available in all markets.

REF 1343111

PANASIL® CONTACT PLUS X-LIGHT, TWO IN ONE LIGHT





Panasil® contact is a Light body based on A silicone for precision impressions. The setting characteristics of both products are impressive: end of setting can be achieved after only 2 minutes.



Flexible setting characteristics

- O Flexible working time up to 2 minutes
- Always the same short intraoral setting time of 2 minutes
- O < 2 min. working time</p>
 - + 2 min. intraoral setting time
 - > 2 min. end of setting

Convenient and simple working

- Fast and easy to apply using all conventional dispensing guns such as Applyfix 4 for impression materials
- O Low viscosity and stable at the same time
- O Dimensionally stable elastic recovery

Economical and safe - the new 50 mL cartridge system

- O Economical: no material waste before the first application
- O Intuitive: simple handling without any training



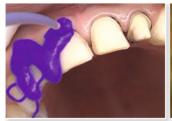


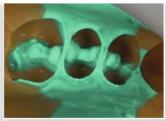
Panasil® contact plus X-Light very low viscosity, purple

- Two-step impressions
- Reline impressions
- Double-mix impressions
- One-step putty-wash impressions

Panasil® contact two in one Light low viscosity, light green

- Double-mix impressions
- One-step putty-wash impressions
- Foil impressions
- Reline impressions
- Highly recommended
- Recommended







Panasil® tray materials Mixing tips, red Mixing tips, blue Applyfix 4 dispensing gun



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Panasil®

Normal pack 1:1

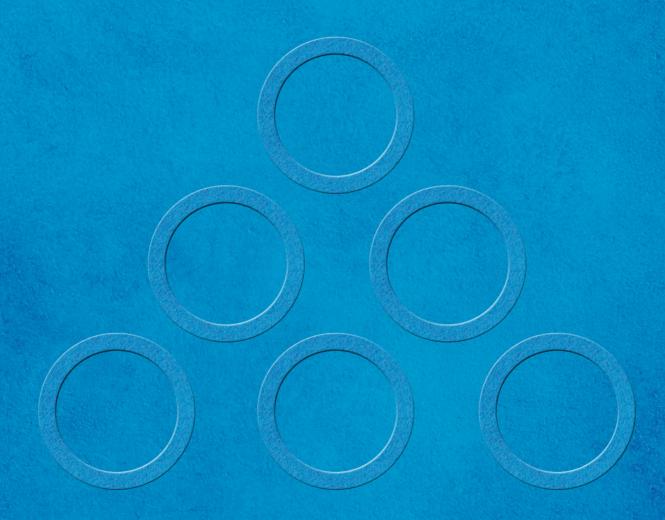
2 × 50 mL cartridges, 8 red mixing tips

Normal pack 1:1

2 × 50 mL cartridges, 6 blue mixing tips

contact plus X-Light contact two in one Light REF 1189211

REF 1178111









FUTAR®

The **Futar**® family of products includes six syringeable elastomeric materials for bite registration to create precise impressions of the occlusal situation.

All the materials are A-silicones and are impressive thanks to their high final hardness and high level of comfort. The Futar® family has a bite registration material suitable for every requirement.

Dental arch

| Bite registration material | Mixing | Working time at 23 °C | Intraoral setting time | Total setting time* | Special feature | Page |
|----------------------------|--------|-----------------------|------------------------|---------------------|--|------|
| Futar® | | 0:30 min. | 1:30 min. | 2:00 min. | Hard material | 30 |
| Futar® D | R | 0:30 min. | 1:30 min. | 2:00 min. | Especially hard material | 31 |
| Futar® D Slow | | 1:30 min. | 3:00 min. | 4:30 min. | Especially hard material with a long processing time | 33 |
| | | | | | | |

^{*} Total setting time (removal from the mouth) from the start of the mixing.

Segment

| Bite registration material | Mixing | Working time at 23 °C | Intraoral setting time | Total setting time* | Special feature | Page |
|----------------------------|--------|-----------------------|------------------------|---------------------|---|------|
| Futar® Fast | | 0:15 min. | 0:45 min. | 1:00 min. | Hard material, rapid setting | 30 |
| Futar® D Fast | | 0:15 min. | 0:45 min. | 1:00 min. | Especially hard material, rapid setting | 31 |
| Futar® Cut & Trim Fast | | 0:15 min. | 0:45 min. | 1:00 min. | Especially hard, flexible processing, scannable | 32 |
| | | | | | | |

 $[\]ensuremath{^{\star}}$ Total setting time (removal from the mouth) from the start of the mixing.

FUTAR® FUTAR® FAST





Futar® is a syringeable elastomeric A-silicone for bite registration with high final hardness.



Precision

O The high final hardness (Shore A 90) prevents springing when aligning the models in the laboratory

Easy to work with

O Easy to handle and easy to process with a scalpel

Stable

O Highly thixotropic so it does not flow away into the interdental spaces but remains stable on the tooth, easy to remove from the mouth

Modern setting characteristics

- O Regular set: comfortable processing time (30 seconds), short intraoral setting time (90 seconds) for ease of use
- Fast set: short processing time (15 seconds), extra short intraoral setting time (45 seconds): the registration is ready in just one minute

Economical and safe - the new 50 mL cartridge system

- O Economical: 20 % less residue compared to the previous green mixer (Ø 6.5 mm)
- O Intuitive: simple handling without any training



Futar® 30-second processing time

- Bite registration (full dental arch)
- Loading the bite fork
- Registration (general)
- Registration in orthodontics
- Bite registration (segment)

Futar® Fast 15-second processing time

- Bite registration (segment)
- Loading the bite fork
- Registration (general)
- Registration in orthodontics
- Bite registration (full dental arch)
- Highly recommended
- Recommended







Now in NEW cartridge system!

Mixing tips, blue Applyfix 4 dispensing gun





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Futar®

100 mL Normal pack 1:1 2 × 50 mL cartridges,

500 mL 10 × 50 mL cartridges,

Bonus pack 1:1

30 blue mixing tips

Futar®



REF 1191211 REF 1192611

6 blue mixing tips

REF 2827711

REF 2827611

FUTAR® D **FUTAR®** D FAST





Futar® D is a syringeable elastomeric A-silicone for bite registration with high final hardness.



Precision

O The extra high final hardness (Shore D 43) prevents springing when aligning the models in the laboratory.

Easy to work with

O Easy to handle and easy to mill

Stable

O Highly thixotropic so it does not flow away into the interdental spaces but remains stable on the tooth, easy to remove from the mouth

Modern setting characteristics

- O Regular set: comfortable processing time (30 seconds), short intraoral setting time (90 seconds) for ease of use
- Fast set: short processing time (15 seconds), extra short intraoral setting time (45 seconds): the registration is ready in just one minute

Economical and safe - the new 50 mL cartridge system

- O Economical: 20 % less residue compared to the previous green mixer (Ø 6.5 mm)
- O Intuitive: simple handling without any training





Futar® D 30-second processing time

- Bite registration (full dental arch)
- Loading the bite fork
- Registration (general)
- Registration in orthodontics
- Bite registration (segment)

Futar® D Fast 15-second processing time

- Bite registration (segment)
- Loading the bite fork
- Registration (general)
- Registration in orthodontics
- Bite registration (full dental arch)
- Highly recommended
- Recommended







Mixing tips, blue Applyfix 4 dispensing gun



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Futar® D

100 mL **Normal pack** 2 × 50 mL cartridges,

1:1 🖂

500 mL **Bonus pack** 1:1 10 × 50 mL cartridges,

Futar® D



REF 1193211 REF 1196111

6 blue mixing tips

REF 2827811 REF 2827911

30 blue mixing tips





FUTAR® CUT & TRIM FAST



Futar® Cut & Trim Fast is an extra hard, extra fast setting A-silicone for bite registration.



Precision

O The extra high final hardness (Shore D 35) prevents springing when aligning the models in the laboratory.

Flexible to work with

- O Whether with a bur or a scalpel Futar® Cut & Trim Fast is easy and simple to work with.
- O Scannable for using with CAD/CAM

Saves time

15-second processing time for documenting the teeth with an extra fast setting time of 45 seconds: The bite registration is prepared in just one minute.

Convenient and safe – the new 50 ml cartridge system

- O Thanks to the shorter mixing tip: closer to the dental arch and therefore even more precise application!
- O Intuitive: simple handling without any training







Futar® Cut & Trim Fast 15-second processing time

- Bite registration (segment)
- Loading the bite fork
- Scannable bite registration
- Registration in orthodontics
- Bite registration (full dental arch)
- Highly recommended
- Recommended





Mixing tips, red
Applyfix 4 dispensing gun





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100 mL **Normal pack** 1:1 2 × 50 mL cartridges, 8 red mixing tips

500 mL **Bonus pack** 1:1 10 × 50 mL cartridges, 40 red mixing tips

Fast >>>

REF 1197511

REF 2827511

32



FUTAR® D SLOW



Futar® D Slow is a syringeable elastomeric A-silicone for bite registration with an extra high final hardness and an extra long processing time.



Precision

O The extra high final hardness (Shore D 43) prevents springing when aligning the models in the laboratory

Easy to work with

O Easy to handle and easy to mill

Stable

O Highly thixotropic so it does not flow away into the interdental spaces but remains stable on the tooth

Wide range of possible uses

With a 90-second processing time, Futar® D Slow ensures plenty of time for myocentric bite registration, custom margin contouring, for use as an insulating agent or fixation material combined with other A-silicones in implant dentistry or anywhere where a particularly hard A-silicone is used in the clinic or laboratory.

Economical and safe – the new 50 mL cartridge system

- O Economical: 20 % less residue compared to the previous green mixer (Ø 6.5 mm)
- O Intuitive: simple handling without any training



Now in **NEW** cartridge system!

100 mL **Normal pack** 1:1 2 × 50 mL cartridges, 6 blue mixing tips

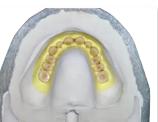
REF 1195111



Futar® D Slow 90-second processing time

- Bite registration (time consuming)
- Myocentric bite registration
- Functional margin contouring
- Bite registration (full dental arch)
- Registration (general)
- Registration in orthodontics
- Highly recommended
- Recommended





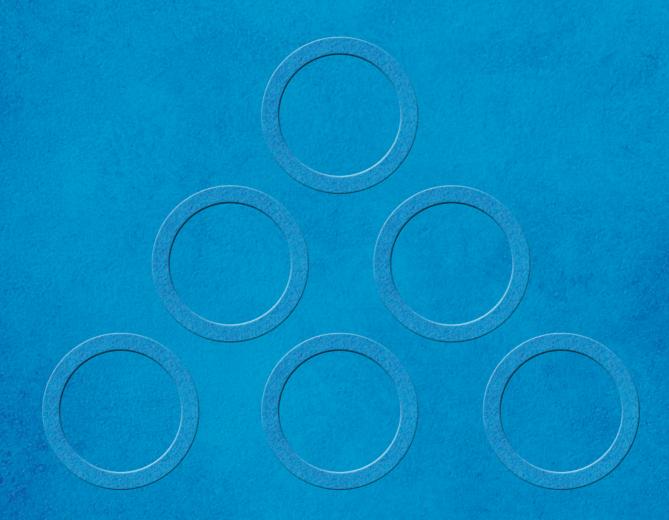


Mixing tips, blue
Applyfix 4 dispensing gun



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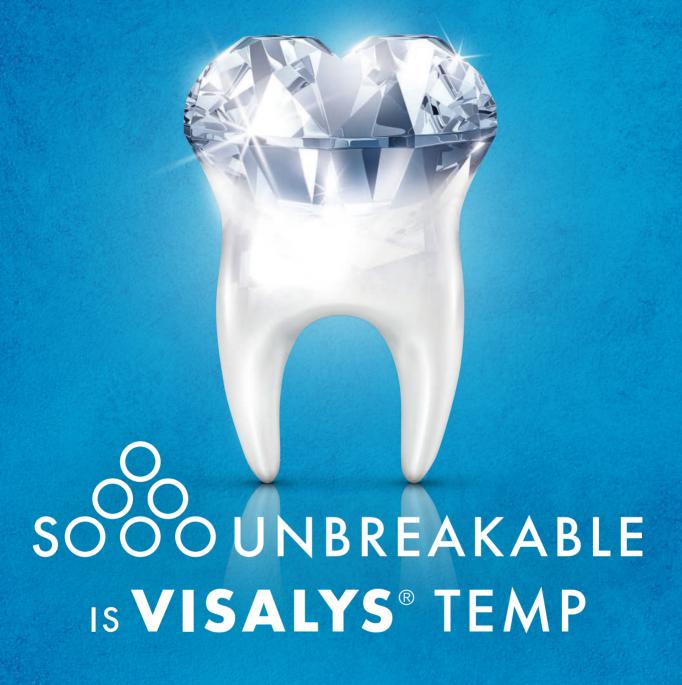
RESTORATION

| VISALYS [®] | TEMP | Page 3 |
|-----------------------------|------|--------|
| | | |

| VISALYS® CEMCORE | Page 39 |
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| VISALIS" CEMICORE | rage 35 |

| VISALYS® CORE | Page 4 |
|---------------|--------|
| VISALIS CORE | ruge 4 |









VISALYS® TEMP



Visalys® Temp is a temporary crown and bridge material for exceptionally stable and fracture-resistant short- and long-term temporary restorations based on a multifunctional acrylic composite. Visalys® Temp is suitable for fabricating temporary crowns, partial crowns, bridges, inlays, onlays, and veneers.



Exceptionally stable and fracture resistant

- O Particularly high values for impact strength, flexural strength, diametrical tensile strength, and elastic modulus
- Satisfied customers thanks to noticeably fewer fractures/repairs
- O Can also be used for long-term temporary restorations (> 4 weeks).

Easy to use

- O Saves valuable time: smooth surface and high luster even without polishing.
- O Comfortable processing: minimal smear layer, precise milling, minimal dust

High aesthetics

Shade BL

- Tooth-like translucency and opalescence ensure optimal integration into the existing dentition thanks to the chameleon effect.
- O Natural fluorescence; available in six shades
- Also suitable for very challenging anterior teeth temporary restorations



Visalys® Temp

- 4-week temporary restoration
- Long-term temporary restoration
- Highly recommended
- Recommended





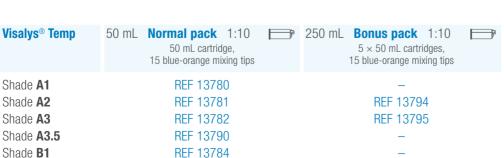


Mixing tips, blue-orange Applyfix 6 dispensing gun



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REF 13788

SALYS

SA







VISALYS® CEMCORE



Visalys® CemCore is a dual-curing, adhesive cementation and core build-up material. The unique Active-Connect-Technology (ACT) provides an optimized adhesive bond and at the same time Visalys® CemCore has outstanding stability thanks to the special network former, even without matrices.



2 in 1: 1 product, 2 indications

- O For cementation of all restorations, even in the highly esthetic anterior region
- O For core build-ups, also in difficult situations

Permanently strong adhesive bond and reliable core build-up

- Despite the hydrophobicity required for a core build-up material, the unique Active-Connect-Technology (ACT) with the integrated phase-transfer catalyst ensures a permanently strong adhesive bond.
- O Special network formers provide Visalys® CemCore with high stability for core build-ups while at the same time very good flowability when positioning the restoration.

Effortless work

- Visalys® CemCore is dual-curing, ensuring reliable curing even in sites with no light access.
- O Core build-ups are problem free, even without matrices.
- O Flows during cementation to form a thin layer under the restoration and any excess can be easily removed thanks to the fine control of the initial light curing.
- O Visalys® CemCore has a higher radiopacity than enamel and dentin and is thus easily visible.
- O And of course, free of bisphenol A



Visalys® CemCore

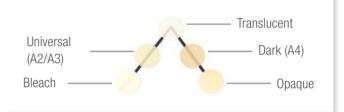
Cementation

• Core build-up

Highly recommended

Recommended





Mixing tips, blue, blunt Mixing tips, blue, tapered Intraoral tips, transparent Endo tips, transparent



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| Visalys® CemCore | Starter pack 4.5 g (2.5 mL) automix syringe, 2 mL Tooth Primer, 2 mL Restorative Primer, blue mixing tips, blunt/tapered, 5 units each, 3 intraoral tips, 2 endo tips | Normal pack 9 g (5 mL) automix syringe, blue mixing tips, blunt/ tapered, 10 units each, 6 intraoral tips, 4 endo tips | Visalys® CemCore Try In Paste 1.4-mL-syringe, 5 application tips |
|---|---|--|--|
| Universal (A2/A3) Opaque Translucent Bleach Dark (A4) | REF 13570 - - - - | REF 13572 REF 13573 REF 13574 REF 13575 REF 13576 | REF 13592 REF 13593 REF 13590 REF 13591 REF 13594 |
| | | | |

Visalys® Tooth Primer

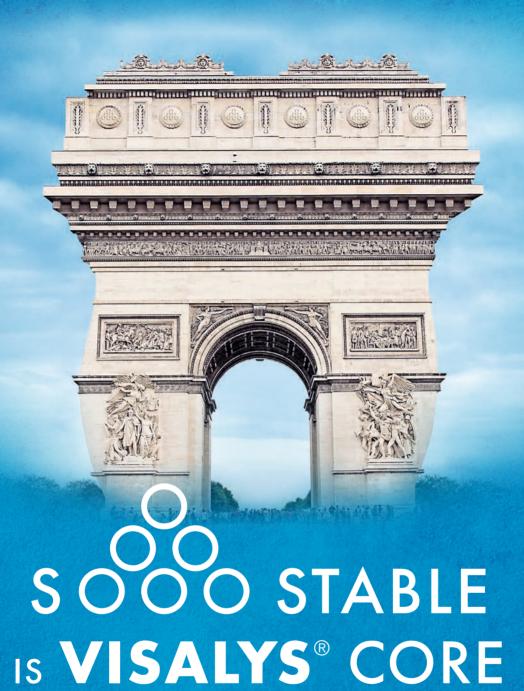
 1×4 -mL-bottle

REF 13580

Visalys® Restorative Primer

 1×4 -mL-bottle

REF 13581







VISALYS® CORE



Visalys® Core is a dual-curing, radiopaque, fluoride-containing material for core build-up and cementing root posts with a unique Active-Connect-Technology (ACT).



Reliable adhesive bond for durable restorations

- The unique Active-Connect-Technology (ACT) provides a reliable adhesive bond even with light-curing single-step adhesives.
 - Visalys® Core adheres exceptionally well to light-curing or dual-curing single-step or multi-step adhesives you can still use your preferred adhesive.
- Superstructures with Visalys® Core are strong in compression and stable and form a reliable monoblock with root post and core build-up.

Success even in difficult situations

O Visalys® Core is dual-curing, ensuring that superstructures are solid even in sites with no light access.

Two indications, one material

O For core build-up and post cementation

Makes work easier

- O Visalys® Core can be easily applied directly into the cavity with minimal application force.
- Visalys® Core flows easily into the root canal but for core buildup still has excellent stability and can be easily modeled – also without matrices.
- O Visalys® Core is precise and can be ground similar to dentin. Light curing in only 20 seconds.



Visalys® Core

- Core build-up
- Post cementation
- Highly recommended
- Recommended







Mixing tips, brown
Mixing tips, yellow, short
Endo tips, transparent
Intraoral tips, transparent
Intraoral tips, yellow
Applyfix 8 dispensing gun



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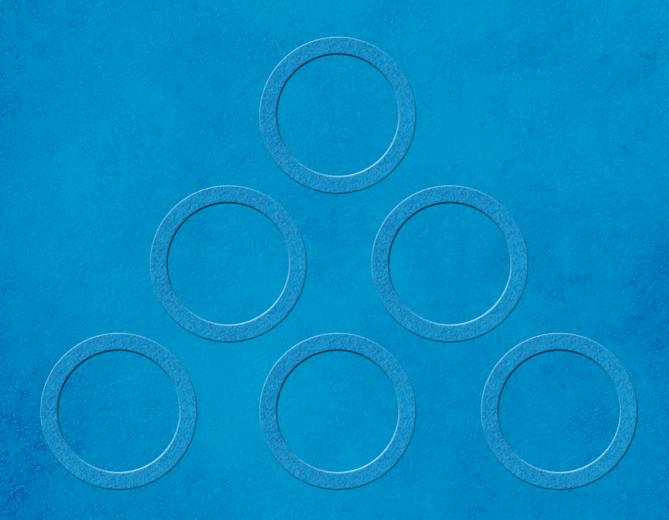
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| | Automiz | Cartridge | | |
|----------------------|---|---|---|--|
| Visalys® Core | 9 g (5 mL) Intro pack 1:1 ── | 18 g (10 mL) Normal pack 1:1 | 45 g (25 mL) Normal pack 1:1 | |
| | 1 × 9 g (5 mL) automix syringe, 10 brown mixing tips, 5 intraoral tips, 5 endo tips | 2×9 g (5 mL) automix syringe, 20 brown mixing tips 10 intraoral tips, 10 endo tips | 1×45 g (25 mL) cartridge, 20 yellow mixing tips, 20 intraoral tips | |
| White | REF 13866 | REF 13860 | REF 13870 | |
| Dentin | REF 13865 | REF 13861 | REF 13871 | |
| | | | | |



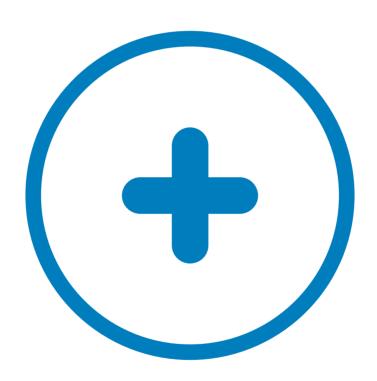


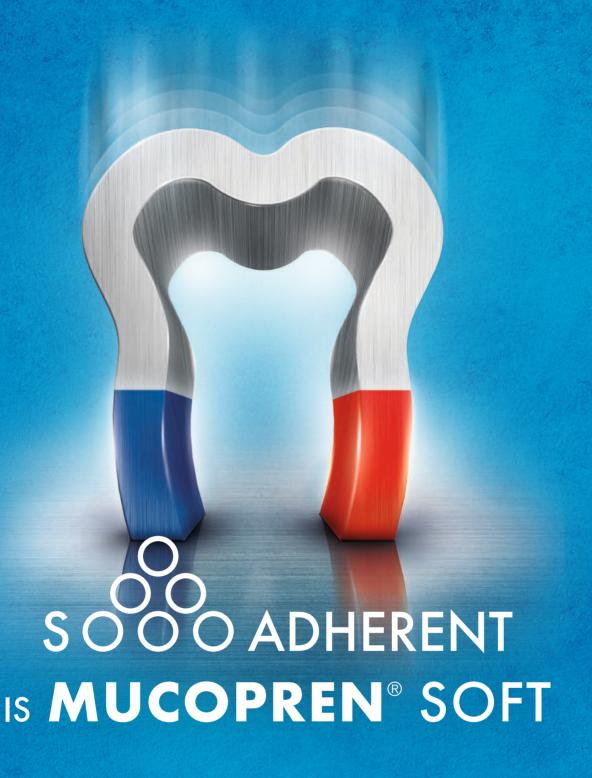


OTHER PRODUCTS

MUCOPREN® SOFTpage 45PANASIL® LAB PUTTYpage 47

MULTI TRAYS page 46 **ORTHOSKAVIDENT**® C page 48











MUCOPREN® SOFT



Mucopren® Soft is a permanently soft durable relining material for removable dentures based on vinyl polysiloxane.



Comfortable processing

- O Can be used chairside and is applied in just a few minutes
- O Can be easily processed with scalpel and bur

Very comfortable for patients

- O The particularly smooth, hydrophobic silicone surface offers protection against microbial contamination*
- O Permanently elastic

Durable

- Outstanding adhesion, does not detach from the prosthesis
- O High tear resistance, long service life



Mucopren® Soft

- Direct relining
- Indirect relining
- Highly recommended
- Recommended









Mixing tips, green
Mixing tips, blue
Applyfix 4 dispensing gun



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| Mucor | oren® Soft | Silicone sealant | Adhesive |
|--|--|---|---|
| Base set 50 mL Mucopren Soft, 50 mL Mucopren silicone sealant, 10 mL Mucopren adhesive, 7 green mixing tips, 20 blue mixing tips, 1 brush holder, 20 single-use brushes, 1 steel bur, accessories | 100 mL Normal pack 1:1 2 × 50 mL Mucopren Soft, 6 green mixing tips | 50 mL Normal pack 1:1 1 × 50 mL Mucopren silicone sealant, 10 blue mixing tips | 10 mL Normal pack 10 mL Mucopren® Adhesive |
| REF 28105 | REF 15687 | REF 15686 | REF 14203 |





MULTI TRAYS



Partial impression trays made of plastic for single use for anatomical and/or precision impressions.



Saves time and money

- O Combines three steps in one (impression, opposing dentition impression, and bite registration)
- O No additional adhesive required
- Scannable

Simple and varied handling

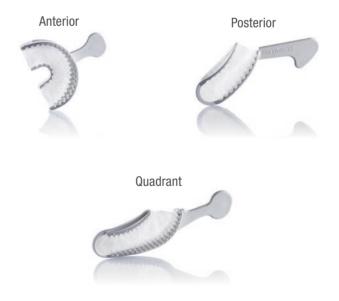
- O Suitable for inlays/onlays or single crowns
- O Stable, grooved tray sides for high strength; thin, mobile, tearproof gauze for precise impression results





| Silginat® / Silginat® Strawberry | p. 11 |
|----------------------------------|----------|
| Identium® | p. 14-15 |
| Panasil® tray | p. 23 |
| Panasil® monophase Medium | p. 24 |





| Anterior | Posterior | Quadrant |
|-----------------|------------------|-----------------|
| 30 pieces | 50 pieces | 30 pieces |
| REF 17752 | REF 17750 | REF 17753 |

PANASIL® LAB PUTTY





Panasil® lab Putty is a kneadable, addition-curing overcast material based on vinyl polysiloxane with a high final hardness and is therefore ideal for use as an overcast and bite index material. Other laboratory work such as model fabrication for fracture and crack repairs can be easily carried out.



Effective use

- O Clean and easy dosage
- O Non-sticky, smooth kneading

All the advantages of an A silicone

- O Dimensional stability
- O High detail reproduction
- O Linear dimensional change ≤ -0.1%

Easy to process

- O Very short setting time (6 minutes at 23°C)
- O Precise retention of the teeth in the overcast thanks to the high final hardness (Shore A 85)



Panasil® lab Putty

- Overcast material
- Bite index material
- Fracture repairs
- Crack repairs
- Highly recommended
- Recommended







 $\begin{array}{ccc} 10 \text{ kg} & \textbf{Economy pack} & 1:1 \\ \hline 1 \times 5 \text{ kg catalyst paste, } 1 \times 5 \text{ kg base paste,} \\ 2 \times \text{dispensing scoops} \end{array}$

REF 11153



ORTHOSKAVIDENT® C



Orthoskavident® C is a conditioning fluid for cleaning and drying prepared cavities and tooth stumps. Can be used for all external applications in the dental practice that require a clean and oil-free surface.



Easy to handle

Orthoskavident® C in the 150 mL glass bottle is easy to use and simple to process.

Wide range of uses

- For all external applications that require a clean and oil-free surface such as removing the smear layer on the surface of prepared teeth before attaching a fixed dental restoration or inserting fillings; replacing or repairing damaged veneers in the mouth.
- O Sealing teeth; adhering brackets in orthodontics, etc.



Orthoskavident® C

- Cleaning and drying prepared cavities and tooth stumps
- Highly recommended
- Recommended



150 mL Normal pack
150 mL bottle



450 mL **Economy pack** 3 × 150 mL bottle



REF 13063 REF 13065

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ACCESSORIES

ADHESIVES page 50 APPLYFIX page 52

MIXING SYSTEMS page 51 SYMPRESS page 53





ADHESIVES



To ensure the best possible adhesion between the impression tray and the impression material, it is recommended to use an adhesive that is appropriate for the chemical composition of the impression material.

Available in 1 x 10 mL glass bottles:

- O Easy to apply
- O Quick drying time
- O Good visual inspection





Best possible retention of the impression in the impression tray

 Adhesive and impression material are coordinated in terms of their chemistry

Identium® Adhesive

O Specifically for Vinylsiloxanether® impression material (Identium®)

Panasil® Adhesive

O Specifically for all addition-curing impression materials (A-silicones) such as Panasil®

Mucopren® Adhesive

- Optimal adhesion of Mucopren® Soft to acrylic dentures
- O Prevents the formation of gaps between the denture acrylic and the reline silicone



| Identium® Adhesive 10 mL bottle | Panasil® Adhesive 10 mL bottle | Mucopren® Adhesive 10 mL bottle |
|---------------------------------|-----------------------------------|---------------------------------|
| REF 14204 | REF 14101 | REF 14203 |

MIXING SYSTEMS



Impression material / Bite registration material

Mixing tips red, Ø 4.0 mm

Impression materials:

Panasil® initial contact X-Light/-Fast,

Panasil® initial contact Light/-Fast,

Panasil® contact plus X-Light

Identium® Light/-Fast,

Bite registration materials:

Futar® Cut & Trim Fast

50 tips

REF 17249

100 tips

REF 17250







for 380 mL jumbo cartridges

Mixing tips blue-orange, Ø 3.2 mm

Temporary crowns/bridge material:



45 tips **REF 17900**

Mixing tips blue, Ø 6.0 mm

Impression materials:

Panasil® monophase Medium,

Panasil® initial contact Regular,

Panasil® contact two in one Light,

Panasil® tray Fast Heavy,

Panasil® tray Soft Heavy,

Panasil® tray Soft Heavy Fast,

Silginat®/-Strawberry

Bite registration materials:

Futar®, Futar® Fast, Futar® D, Futar® D Fast, Futar® D Slow

50 tips **REF 17244**

100 tips **REF 17246**





Restoration material

Visalys® Temp



50 tips

REF 13789

Mixing tips blue, Ø 2.5 mm

Cementation and core build-up composite:

Visalys® CemCore



50 tips, tapered **REF 17236**

50 tips, blunt

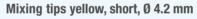
REF 17238



Core build-up composite (9 g (5 mL) automix syringe):

Visalys® Core





Core build-up composite (45 g (25 mL) cartridge):

Visalys® Core

50 tips

REF 17230



Soft relining material

Mixing tips green, Ø 6.5 mm

Mucopren® Soft



50 tips **REF 17234** Mixing tips light blue, Ø 3.2 mm

Mucopren® silicone sealant





Intraoral tips and Endo tips

Intraoral tips transparent, Ø 0.6 mm for mixing tips red, Ø 4.0 mm

100 tips **REF 17259**



for mixing tips blue, Ø 6.0 mm

100 tips

REF 17260



Intraoral tips yellow, Ø 0.6 mm

for mixing tip yellow, Ø 4.2 mm

50 tips **REF 17225**

Intraoral tips transparent, Ø 1.2 mm

for mixing tips blue blunt / brown, Ø 2.5 mm

Endo tips transparent, Ø 0.9 mm

for mixing tips blue blunt / brown, Ø 2.5 mm

50 tips **REF 17223**

50 tips







APPLYFIX



Applyfix are manual dispensing guns and syringes for dosing and applying modern impression materials. The plastic products can be easily disinfected to satisfy the most stringent hygiene requirements and have a compact ergonomic design, which makes them easy and efficient to use.



Applyfix 4

O Plastic dispensing gun for 50 mL cartridges with a 1:1/2:1 ratio. Suitable for: Identium®, Silginat®, Panasil®, Futar® and Mucopren® Soft.

Applyfix 5

Plastic application syringe (with syringe tips) for precise application of syringeable impression materials.
 Suitable for: Identium®, Panasil®

Applyfix 6

O Plastic dispensing gun for 50 mL cartridges with a 4:1/10:1 ratio. **Suitable for: Visalys® Temp**

Applyfix 8

O Plastic dispensing gun for 25 mL cartridges with a 1:1/2:1 ratio. **Suitable for: Visalys® Core**







| Applyfix 4 for 50 mL cartridges 1:1/2:1 | Applyfix 5 2 application syringes made of plastic, 12 syringe tips + accessories | Applyfix 6 for 50 mL cartridges 4:1/10:1 | Applyfix 8 for 25 mL cartridges 1:1/2:1 | Syringe tips 1 for Applyfix 5, 50 pieces |
|---|--|--|---|--|
| REF 17203 | REF 17204 | REF 17208 | REF 17212 | REF 17207 |

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SYMPRESS DISPENSER



Electrical dosing and mixing device for automated mixing of impression materials in the Kettenbach Dental **Plug & Press® system** and related systems in a mixing ratio of 5:1 (impression materials in foil bags or jumbo cartridges).





Precise and homogeneous dispensing

- O Bubble-free mixing for precise impression results
- O Precise dispensing of the required quantity of material: just the material that's needed

Hygienic and reproducible

- O Standardized dosing and mixing at the touch of a button, independent of the operato.
- O Simple and hygienic with electronic processes replacing manual operation

Adjustable extrusion speed

- Automated advance/withdrawal
- O Different extrusion speeds for trays or syringe filling

Guaranteed reliable technology

- O Simple and safe operation
- O Device is based on the latest state of the art with a 3 year manufacturer's warranty



| Sympress dispenser | Wall mounting bracket | Unit cover | Pressure plate | Base |
|--------------------|-----------------------|------------|----------------|-----------|
| REF 35910 | REF 35908 | REF 35905 | REF 35906 | REF 35907 |

APPLICATION OF **IDENTIUM**® HEAVY AND **IDENTIUM**® LIGHT



(O)





1

Select the impression tray

The width at the maxillary tuber in the upper jaw and at the mandibular alveolar tuberculum in the lower jaw are determined.



Preferably use a closed tray. The distance between the tray wall and the tooth equator should be at least 3 times greater than the depth of the undercut.



Prepare the impression tray

Apply adhesive 5 min before taking the impression. (Follow the manufacturer's instructions!)



Identium® Adhesive (for Vinylsiloxanether®) **Warning:** Use only the adhesive that is recommended for the impression material. For perforated trays, also use adhesive!



Assess the oral situation

Block out any large undercut areas (e.g., bridge elements, wide interdental spaces).



Wax or other block-out materials



Ensure good conditions for taking the impression

Expand the sulcus and stop any bleeding. For subgingival preparation margins, use retraction cords.



Warning: When using astringents and other solutions, beware of any interactions. Test beforehand where applicable.



Clean the prepared stumps

Remove any residual blood, clean and dry.



Sugi® or pellet with Orthoskavident® C Soak a cotton pellet with **Orthoskavident**® C.



Mix the impression material

Homogeneously mix the **Identium**[®] Heavy and fill the tray. Leave the mixing tip in the material when doing so.



Identium® Heavy, Sympress dispenser When using the cartridge for the first time, ensure that the mixture is homogeneous. At least the first 3 cm should be discarded once.



Fill the impression tray completely with the material

Important: Also cover the hard palate in the upper jaw tray with material or insert stops.



Place stops made of wax, for example.

Note the processing time!













Remove the retraction cords

If retraction cords have been placed, remove them now.





Inject around the preparation

Apply low-viscosity material into the sulcus and around the stump. The tooth surfaces are immediately wetted.



Identium® Light

Note the total processing time!



Insert into the patient's mouth

Insert the filled impression tray into the patient's mouth vertical to the occlusal plane while slowly applying pressure and hold in position.

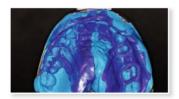


Warning: Do not fully depress the tray! Do not hand the impression tray over to others! Note the setting time of the material!



Remove from the mouth

After the material has completely set, remove the impression and then rinse and dry it.

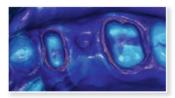


Remove the impression in the same direction as the tooth axis. Tilting the tray too much can cause permanent deformations.



Check the impression

Check that the preparation margins and surrounding mucosal areas have been fully transferred. Assess any imperfections.





Disinfect the impression

Follow the manufacturer's instructions.



It is recommended to carry out an immersion disinfection, which involves wetting the surface entirely. A contact time of 10 minutes must be adhered to.

APPLICATION OF **PANASIL®** BINETICS PUTTY FAST WITH **PANASIL®** INITIAL CONTACT X-LIGHT







1

Select the impression tray

The width at the maxillary tuber in the upper jaw and at the mandibular alveolar tuberculum in the lower jaw are determined.



Preferably use a closed tray. The distance between the tray wall and the tooth equator should be at least 3 times greater than the depth of the undercut.



Prepare the impression tray

Apply adhesive onto a clean and dry impression tray 5 minutes before taking the impression. (Follow the manufacturer's instructions!)



Panasil®
Adhesive (for A-silicones)

Warning: Use only the adhesive that is recommended for the impression material. For perforated trays, also use adhesive!



Assess the oral situation

Block out any large undercut areas (e.g., bridge elements, wide interdental spaces).



Wax or other block-out materials



Ensure good conditions for taking the impression

Expand the sulcus and stop any bleeding. For subgingival preparation margins, use retraction cords.



Warning: When using astringents and other solutions, beware of any interactions. Test beforehand where applicable.



Clean the prepared stumps

Remove any residual blood, clean and dry.



Sugi® or pelle with Orthoskavident® C

Sugi® or pellet Soak a cotton pellet with Orthoskavident® C.



Mix the impression material

Homogeneously mix the **Panasil®** binetics Putty Fast, leaving the mixing tip in the material.



Panasil® binetics Putty Fast, Sympress dispenser

When using the cartridge for the first time, ensure that the mixture is homogeneous. At least the first 3 cm should be discarded once.



Fill the impression tray completely with the material

Important: Also cover the hard palate in the upper jaw tray with material or insert stops.



Panasil® binetics Putty Fast

Exert a slight counter pressure with the tray against the extruded material during the filling so that the putty strands coalesce.



Insert into the patient's mouth

Insert the filled impression tray into the patient's mouth while applying slight pressure and hold in position.



Warning: Do not fully depress the tray to the base! Note the setting time of the material.





Remove and trim the

Carefully remove undercuts, interdental septa, and excess from the edge of the tray. Add outlet channels and identify the middle of the jaw.

preliminary impression



Interdental knife



Before carrying out the two-step impression, check that the impression can be repositioned perfectly in the mouth. Then rinse again with water and dry.



9

Remove the retraction cords

Remove any retraction cords that have been placed before the correction impression. Only the last cord placed is removed with the double-cord technique.



(11)

Apply the correction material

Place a strip of the very low-viscosity material into the preliminary impression.



Panasil® initial contact X-Light The opening of the mixing or application tip should always remain in the material to prevent inclusion of air.



Inject and reposition

Apply low-viscosity material into the sulcus and around the stump. The tooth surfaces are immediately wetted. Reposition the preliminary impression.



Panasil® initial contact X-Light After successfully injecting around the stump, the preliminary impression must be immediately repositioned. The oral temperature accelerates the setting.



Remove from the mouth

After the material has completely set, remove the impression and then rinse and dry it.



Remove the impression in the same direction as the tooth axis. Tilting the tray too much can cause permanent deformations.



Check the impression

Check that the preparation margins and surrounding mucosal areas have been fully transferred. Assess any imperfections.



Ensure that the preparation margins and adjacent areas are reproduced in detail.



Disinfect the impression

Follow the manufacturer's instructions.



It is recommended to carry out an immersion disinfection, which involves wetting the surface entirely. A contact time of 10 minutes must be adhered to.

APPLICATION OF IDENTIUM® MEDIUM









(1)

Construct a custom-made tray



When using the open tray technique, note the outlets for the fixation screws for the impression posts. Reinforce the outlets with a surrounding sheath.



Fix the impression posts on the implant



When using an open tray, the fixation screws should protrude sufficiently through the perforations to ensure good access to the screws once the impression has been taken.



Prepare a custom-made tray

Apply adhesive 5 min before taking the impression (Follow the manufacturer's instructions!).



Identium® Adhesive (for Vinylsiloxanether®)

Warning: Use only the adhesive that is recommended for the impression material.



Assess the oral situation

With residual teeth, block out any severe undercuts.



Wax or other block-out materials



Fill application syringe

Pass the filled application syringe to the clinician and immediately continue with step 6.



Applyfix 5

Avoid air inclusions when filling. When using an application syringe, ensure that no impression material residue remains in the syringe. After injection of the material, the filled impression tray must be inserted immediately. The oral temperature accelerates the setting of the material.



Mix the impression material

Homogeneously mix the **Identium**[®] Medium and fill the custom-made tray. Leave the mixing tip in the material to prevent bubbles.



Identium® Medium, Sympress Dispenser

When using the cartridge for the first time, ensure that the mixture is homogeneous. At least the first 3 cm should be discarded once.













Inject around the impression posts

The posts must be completely surrounded by the material.



Identium® Medium

Note the total processing time. Leave the application tip in the material to prevent bubbles.



Insert into and remove from the patient's mouth

Insert the filled impression tray into the patient's mouth and hold in position until the material has set. With the open tray technique, loosen the fixation screws of the transfer posts before removal. Clean and dry the impression.



Warning: Do not hand the impression tray over to others! Note the setting time of the material! Do not fully depress the tray to the base.



Check and, if necessary, reposition the impression posts

Check that the transfer posts are correctly positioned.





Disinfect the impression

Follow the manufacturer's instructions.



It is recommended to carry out an immersion disinfection, which involves wetting the surface entirely. A contact time of 10 minutes must be adhered to.

APPLICATION OF VISALYS® TEMP











Take an anatomical impression

Before the preparation, determine the initial situation using an anatomical impression (if possible). Select an appropriate impression tray and impression material.



Impression tray (we recommend torsion-resistant trays with no perforations to maintain the dynamic pressure), impression material The use of an A-silicone such as **Silginat**® is recommended (unlimited storage, can be poured out repeatedly, that is, only 1 anatomical impression has to be prepared! The high elastic recovery properties ensure exceptionally precise results.). For smaller tasks, partial trays (e.g., the Multi Trays from Kettenbach Dental) save time and are cost effective.



Process the anatomical impression

Trim back the anatomical impression with a scalpel; shorten any disruptive interdental septa; check whether the impression can be repositioned without any difficulties.





Scalpel

Cut out any interdental septa in the impression; if necessary, place a central line between the incisors by marking with a notch. Cover any adjacent existing restorations made of composite with petroleum jelly, for example, to prevent adhesion.



Initial use and application

When activating the cartridge for the first time, it must be ensured that both components are extruded at the same time. Ensuring uniform extrusion is only necessary for the first use and subsequently material no longer needs to be discarded.





After each change of mixer, before filling the impression ensure that a small quantity of the temporary plastic is applied to ensure the correct mixing ratio.



Application into the impression

Fill from the occlusal surface outwards. The end of the mixing tip should always remain in the material to prevent inclusion of air. The quantity of material should not go beyond the gingival margin.



Visalys® Temp, Applyfix 6 dispensing gun, blue-orange mixing tips **Tip:** Start the stopwatch before filling the impression so that the processing time can be checked.



Insert into the patient's mouth

Place into the patient's mouth, applying slight pressure, within 40 seconds of starting the mixing.















Check the correct removal time

Check the level of hardness in the patient's mouth using excess material.



Check using a probe or similar

Earliest removal from the mouth after 1:30 min. including working time!

Visalys® Temp reaches an optimal elastic phase for easy removal on average 2:00 min. after the start of mixing.



Remove from the patient's mouth

Remove the temporary restoration from the patient's mouth during the elastic phase between 1:30 and 2:30 min. after the start of mixing.



Early removal (temporary restoration is still very elastic): with severe undercuts and large bridge spans. Later removal (temporary restoration is already relatively hard): for smaller tasks and those with few undercuts.



Repairs

Repairs (e.g., due to air bubbles or fracture sites) can be made directly with **Visalys®** Temp or a flowable composite. The oxygen inhibition layer (smear layer) should not be removed before carrying out repairs.



Visalys® Temp or flowable composite For older temporary restorations that were inserted into the patient's mouth several days earlier, the surface must first be mechanically roughened. A self-etching (enamel/dentin) bonding agent should be used in addition to the composite.



Finish

4:00 min after starting mixing, **Visalys®** Temp has set completely and the temporary restoration can be finished.



Cross-cut stainless steel bur; narrow bur; disc

Before finishing the temporary restoration, the oxygen inhibition layer (smear layer) should be removed because otherwise the bur will rapidly become clogged and blunt. Swabs soaked in alcohol or disinfectant swabs are suitable for this purpose.



Polish

Polishing the temporary restoration creates a smoother surface with higher luster that makes the accumulation of plaque more difficult and also feels more pleasant for the patient.



Composite polishers, cotton buff, goat hair brush

Generally, the surface of **Visalys**®
Temp is already sufficiently smooth that additional polishing can usually be omitted altogether.



Cement

The temporary fixation cement should, with a brush or spatula if necessary, be applied in a thin layer to all internal walls of the temporary restoration.



Temporary cement

Eugenol may impair the curing of luting composites; if composite materials are planned for the permanent restoration, a eugenolfree temporary luting cement should be used to cement the temporary restoration.

APPLICATION **VISALYS®** CEMCORE CEMENTATION



Pretreatment of restoration

Restorations of (noble) metal, oxide ceramic, composite Sandblast with aluminium oxide ($\leq 50 \ \mu m$), rinse and dry. Do not use phosphoric acid gel!



Apply hydroflouric acid as per the product manufacturer's instructions.









Hydroflouric acid

In each case, note the information provided by the manufacturer of the restoration material.



Apply **Visalys**® Restorative Primer with a disposable applicator or brush onto the adhesive surfaces and allow it to work in for 60 sec.



Visalys®
Restorative Primer,
Disposable
applicator



Drop **Visalys**® Restorative Primer into a preparation tray. Light protection is not necessary. Close primer bottle carefully after each use.



Dry with a gentle jet of water / oil-free air.



Air blower

Visalys® Restorative Primer is nonlight curing.



Pretreatment of enamel / dentin

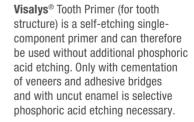
Crowns, bridges, inlays, onlays, partial crowns, dentin, cut enamel OPTIONAL: phosphoric acid etching



NECESSARY: phosphoric acid etching



Phosphoric acid





Apply **Visalys®** Tooth Primer to the entire adhesive surface of the tooth surface using a suitable applicator and rub in for 20 sec.



Visalys® Tooth Primer, Applicator



Drop Visalys® Tooth Primer into a preparation tray. Light protection is not necessary. After applying the Visalys® Tooth Primer, start with the further processing immediately. Close primer bottle carefully after each use.











Dry with a gentle jet of water / oil-free air.



Air blower

Visalys® Tooth Primer is non-light curing.



Cementation with Visalys® CemCore

Apply **Visalys®** CemCore on the inside surfaces of the restorations and on the core or cavity surfaces, as applicable.



Visalys® CemCore In the case of application in the mouth, the processing time is reduced and the restorations must be placed within 2 min.



Place the restoration on the core or in the cavity.





Removing excess: Two methods are possible.

METHOD 1:

Cure with light 2-3 sec. per quarter surface. (Alternatively: self-cure until gel phase: approx. 2-3 min.)



Polymerization lamp



The excess is either polymerized with a commercially available polymerization lamp (1200 mW / cm²) for 2-3 sec. oral and vestibular as well as mesial and distal – i.e. at four points – or wait for the gel phase in self-curing.





e. g. Scaler

The excess, which is still soft-elastic, can be easily removed with a scaler.





METHOD 2:

Immediately remove excess. (Without initial curing – Skip step 9)



e. g. cotton pellet, brush or foam pellet

Remove the excess directly, e.g. with a cotton pellet, brush or foam pellet.



APPLICATION **VISALYS®** CEMCORE CEMENTATION / ROOT POST CEMENTATION



Final curing / Finishing

After removal of excess, the cement joint can be covered with a glycerin gel or polyethylene glycol paste, e.g. **Visalys**® CemCore Try In Paste, to avoid the formation of an inhibition layer.



0

e. g. **Visalys**® CemCore Try In Paste Tip: **Visalys**® CemCore Try In Paste is suitable for this purpose and can be easily removed with water.



Polymerize each surface / cement joint for 10 sec. with light.



Polymerization lamp





Non-translucent restorations (e. g. metal crown)

For non-translucent restorations, the final curing must be allowed to complete beneath the restoration.







Rough cement joints can be finished and polished.



Polisher

APPLICATION **VISALYS**® CEMCORE ROOT POST CEMENTATION











Pretreatment of the root post

Apply **Visalys®** Restorative Primer with a disposable applicator or brush onto the adhesive surfaces and allow it to work in for 60 sec.



Visalys®Restorative Primer.
Disposable
applicator



Apply **Visalys**® Restorative Primer. In each case, note the information provided by the manufacturer of the post material.

2

Dry with a gentle jet of water / oil-free air.





Note: If the manufacturer of the root post or indirect core build-up recommends silanization or pre-treatment with a primer for metal or oxide surfaces or a primeradhesive / universal adhesive-activator combination, the Visalys® Restorative Primer can be used for this purpose.



APPLICATION **VISALYS®** CEMCORE ROOT POST CEMENTATION













Whetten the cleaned and dried surfaces of the root canal, the coronal dentin and the enamel parts, as applicable, completely with **Visalys®** Tooth Primer and rub in for 20 sec.



Visalys® Tooth Primer, Applicator



4

Remove excess from the root canal with a paper tip.



Paper tip



Dry all surfaces with a gentle jet of water / oil-free air.



Air blower



Cementation with Visalys® CemCore

Apply Visalys® CemCore to the post,...



Visalys® CemCore, Tweezer



... into the root canal and the remaining surfaces of the tooth structure. **DO NOT USE LENTULO!**



Visalys® CemCore

While discharging, it is recommended that the tip of the used mixing tip always remains in the material.



Insert the post using rotating movements.



Tweezer



To fix the post, the material can be light-cured with a suitable polymerization lamp for 10 sec.



Polymerization lamp



APPLICATION **VISALYS®** CEMCORE CORE BUILD-UP









(1)

Pretreatment of the tooth structure

Without root post

Selective phosphoric acid etching of the enamel may be undertaken optionally.



Proceed directly to step 4.



Phosphoric acid



Visalys® Tooth Primer (for tooth structure) is a self-etching single-component primer and can therefore be used without additional phosphoric acid etching.



Apply **Visalys**® Tooth Primer to the entire adhesive surface of the core or the cavity using a suitable applicator and rub in for 20 sec.



Visalys® Tooth Primer, Applicator



Drop **Visalys®** Tooth Primer into a preparation tray. Light protection of the primer is not necessary. After applying the **Visalys®** Tooth Primer, start with the further processing immediately. Close primer bottle carefully after each use.



Dry with a gentle jet of water / oil-free air.



Air blower

Visalys® Tooth Primer is non-light curing.



Optional: Apply a matrix.



Matrix

The use of a transparent matrix makes it easier for light to enter in the case of optional light curing.



Apply **Visalys**® CemCore directly into the cavity.



Visalys® CemCore In the case of very badly damaged teeth, a core build-up mold can be used. The mold is filled with **Visalys**® CemCore and then placed on the residual tooth substance.











Light cure for 20 sec.¹⁾ If the layer thickness is above the specified polymerization depths²⁾, wait until the chemical curing process is complete.

The polymerization depth of the Visalys® CemCore





Note: Remove matrices or core forms only after final self-curing.



1) Light intensity: 1200 mW/cm²

| 2) | Shade of Visalys® CemCore | Polymerization depth |
|----|---------------------------|----------------------|
| | Translucent | approx. 2.5 mm |
| | Universal (A2/A3) | approx. 2.0 mm |
| | Bleach, Dark (A4) | approx. 1.5 mm |
| | Opaque | approx. 0.5 mm |



APPLICATION OF VISALYS® CORE











Preparation

Remove any root filling with appropriate instruments or a reamer down to the desired depth.





Prepare the post bed



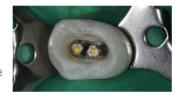
E.g., with the instruments from the Erlanger system (Komet)

To create an apical seal, a root filling of about 3-4 mm should be left [1] with the post bed ideally having a total length of 2/3 of the root length but it should be at least the length of the clinical crown [1, 2].



Adjust the root post

The preparation of the post bed should be carried out until all residual root filling material is removed from the walls and the root posts that fit the selected system drill can be inserted into the canal with slight friction.



Cleaning and disinfection of the post bed is carried out using 95% ethanol, for example. Then remove any excess ethanol from the post bed with paper points.



Adhesive cementation of the post

The root posts (depending on the choice and the manufacturer) can be cemented with conventional dental cements or adhesively with dual- or self-polymerizing composites (such as **Visalys**® Core). Any excess bonding material must be removed with a gentle air jet.





Selected root post; follow the root post manufacturer's instructions for preparation.

Unlike conventional cementation, adhesive cementation has the advantage of producing a single unit made up of tooth, post, and core build-up. With adhesive insertion the risk of micro leaks along the cement seam and the associated risk of bacterial invasion is also reduced or prevented.



Fill the root canal

Now fill the post bed with **Visalys**® Core. Insert the root posts into the canals while rotating slightly.

The material is initially light cured for 20 seconds (chemical curing after 5 minutes).





Visalys® Core in the 5 mL syringe with an endo tip; polymerization lamp

Endo tips make application into the root canal easier; the good flow properties of **Visalys**® Core allow the root post to be easily inserted.







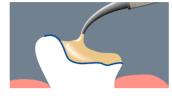




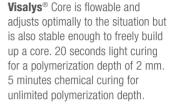


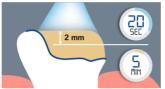
Core build-up

The core can be prepared in the form of a build-up with **Visalys®** Core, producing a fixed unit of tooth, post, and build-up filling.



Visalys® Core (5 mL syringe with an endo tip or 25 mL cartridge), polymerization lamp







Prepare the tooth

After the build-up has set, the preparation can be carried out in line with the planned final restoration.





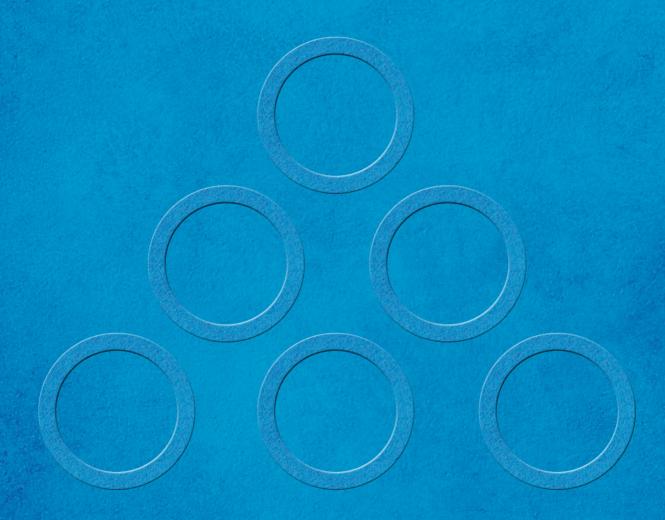
The preparation margins should lie completely in the dentin in the form of a ferrule design to ensure better force transmission to prevent root fractures [1–5].

Example images

Images illustrate the use by Dr Marco Dziwak based on a correctly performed endodontic pretreatment that was carried out elsewhere.

Literature

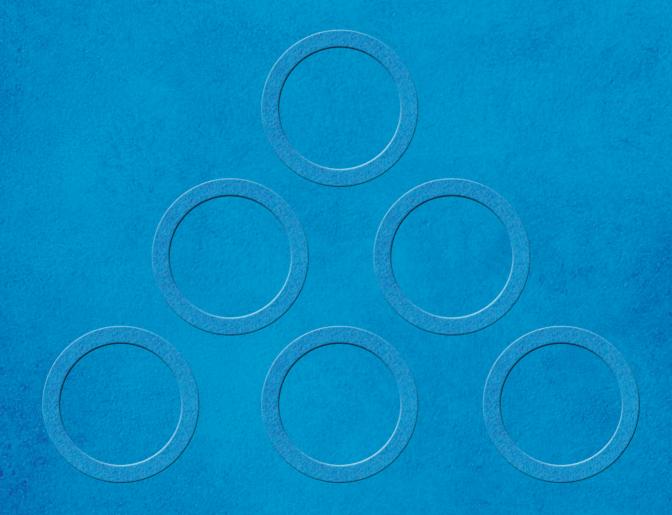
- 1. DGZMK statement. "Build-up of endodontically treated teeth." (2003).
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- $2. Sorensen J.A., Martinoff J.T. \\ \verb|"Clinically significant factors in dowel design." The Journal of Prosthetic Dentistry 52.1 (1984): 28-35.$
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