

Products 2018





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When patients are inspired by your work, that's your reward. And our goal.

Our mission:

At Kettenbach we have one goal: to inspire you and your patients. To meet this goal, we develop outstanding products that enable you to deliver outstanding work – in turn helping you to conjure up a smile on the faces of your patients. We are at your side as your partner.

Our expertise:

We have lived dentistry for more than 70 years: Kettenbach was one of the first companies worldwide to develop an impression silicone. Since then, we have continued to refine our products along with our knowledge about what characterizes a truly good impression material. For the last few years, we have also adopted the same approach and requirements to refine our expertise in the area of composites. And the same applies here: A Kettenbach product is only a Kettenbach product if it helps you to achieve exceptional outcomes.

Our service:

As a family-operated business, we are always there for you in person. When you contact us, you speak with someone who knows our products and your needs intimately. Who can answer your questions. Whose aim is to help you and give you the best possible advice so that you can concentrate on what is most important to you: Your patients.

Our quality:

We would like you and your patients to be inspired by our products. That's why we are never satisfied with what we have achieved but are constantly striving to improve ourselves and our products. We develop and manufacture our products at our company headquarters in Eschenburg in the heart of Germany. No product leaves our site that has not been carefully checked for consistent and high quality.





We have been thinking about progress for more than 70 years. With every single innovation.

2016

Introduction of Futar[®] Cut & Trim Fast, the latest bite registration material from the successful Futar[®] family, which ensures even greater efficiency in practice.

2015

Introduction of Visalys[®] Core, the first core build-up material with the unique Active-Connect-Technology for reliable adhesion 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. The first genuine putty in a cartridge.

1998

Introduction of Mucopren® Soft, a permanently soft relining material.

1994

Introduction of a new bite registration material based on silicone that subsequently achieves a high market position worldwide: Futar[®] Occlusion.

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



Silginat®	8
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Silginat[®] – The Standard for Opposing Jaw Impressions.



Silginat[®], Silginat[®] Strawberry





Stable when stored and suitable for multiple pouring

✓ Anatomical impressions with Silginat[®] are permanently stable when stored and can even be poured out multiple times - preparing several anatomical impressions is no longer necessary.

High precision thanks to the advantages of an A silicone

- ✓ Silginat[®] has an alginate-like consistency and a low breaking strength.
- The material is thixotropic but still flows.
- ✓ It is dimensionally stable with high resilience.
- Scannable.

Standardized, hygienic processes

Clean, simple, and safe application with the 5:1 jumbo cartridge for reproducible results in terms of a quality management system.

Modern setting characteristics

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

C	2	
Dynamic mixers	REF 17900	Page <mark>52</mark>
Electrical dosing and mixing	devices	Page 54
Multi Trays		Page 46

Silginat[®] | medium viscosity

Opposing jaw impressions Preparing temporary crowns and bridges

Anatomical impressions

Orthodontic tasks

Models for case studies

Preparation of models for constructing splints

Construction of simple removable prosthetic restorations

highly recommended recommended





	380 mL Intro pack 5:1 380 mL cartridge, 10 dynamic mixers, 4 Multi Trays	760 mL Refill pack 5:1	300 mL Intro pack 1:1	
Silginat®	REF 14712	REF 14713	REF 13846	
Silginat [®] Strawberry	REF 14714	REF 14715	REF 13826	

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Identium[®] – The Best of Polyether and A Silicone.







with normal and fast setting variants for monophase and one-step im-

pressions. This enables all essential impression techniques to be covered

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

One-step impression

(1-step)

12

			(
Tray material	Mixing	Working time at 23 °C	Intraoral working time	Intraoral setting time	Total setting time*	Special feature	Page
Identium [®] Heavy	A	2:00 min.	-	2:30 min.	4:30 min.	Good pressure build-up	14
Identium [®] Heavy Fast	A	1:15 min.	-	2:15 min.	3:30 min.	Short intraoral setting time	14
Identium [®] Medium	A	2:00 min.	1:20 min.	2:30 min.	4:30 min.	Softer consistency	13
Identium [®] Medium Fast	A	1:15 min.	0:40 min.	2:15 min.	3:30 min.	Short intraoral setting time	13
Light body material							
Identium [®] Light	R	2:00 min.	1:20 min.	2:30 min.	4:30 min.	Extra long intraoral working time	15
Identium [®] Light Fast	R	1:15 min.	0:40 min.	2:15 min.	3:30 min.	Short intraoral setting time	15

with a single material.

) Total setting time (removal from the mouth) from the start of the mixing

Monophase, fixation and pick-up impression

(1-step) Working time Intraoral Intraoral **Total setting Tray material** Mixing at 23 °C working time setting time time* **Special feature** Page Extra long intraoral A Identium[®] Medium 2:00 min. 1:20 min. 2:30 min. 4:30 min. 13 working time Short intraoral setting A Identium® Medium Fast 1:15 min. 0:40 min. 2:15 min. 3:30 min. 13 time

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

Functional impression

(1-step)



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



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Identium® Medium



Identium[®] Medium is a medium-viscosity monophase precision impression material made of Vinylsiloxanether[®] that is particularly well suited to implant impressions thanks to its very high final hardness.

Secure fixation

 Thanks to the high final hardness (Shore A 60), the implant posts and primary crowns are precisely transferred and securely fixed.

Greatest precision

- Perfect flow even with residual moisture enables the preparation margins to be reliably determined.
- Thanks to the short intraoral setting time, there is no deformation during the setting phase.

Time saving

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

More comfortable for user and patient

- Easy to remove from the mouth thanks to the high elasticity; low risk of breakage during model fabrication.
- Neutral taste and smell; short intraoral setting time, considerably reduced gag reflex and movement.



Medium medium viscosi	ty
Fixation impressions	
Functional impressions	
Monophase impressions	
Pick-up impressions	
One-step impressions	
Reline impressions	
highly recommended	recommended





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 x 380 mL cartridges
Medium	REF 14716	REF 14717
Medium Fast	REF 14718	REF 14719

KETTENBACH Simply intelligent

Identium[®] Heavy



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

Greatest precision

- Perfect flow even with residual moisture enables the preparation margins to be reliably determined.
- Thanks to the short intraoral setting time, there is no deformation during the setting phase.

Time saving

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

More comfortable for user and patient

- Easy to remove from the mouth thanks to the high elasticity; low risk of breakage during model fabrication.
- Neutral taste and smell; short intraoral setting time, considerably reduced gag reflex and movement.

Dynamic mixers	REF 17900	Page
Electrical dosing and mixin	g devices	Page
Identium [®] Adhesive		Page



HeavyI high viscosityOne-step impressionsFixation impressionsFunctional impressionsPick-up impressions

highly recommended







Identium®	380 mL Intro pack 5:1 380 mL cartridge, 10 dynamic mixers, 10 mL adhesive, 50 mL Light body, 6 yellow mixing tips, 6 yellow intraoral tips	760 mL Refill pack 5:1 2 x 380 mL cartridges
Heavy	REF 14724	REF 14725
Heavy Fast	REF 14726	REF 14727
,		



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

- Perfect flow even with residual moisture enables the preparation margins to be reliably reproduced along with even the narrowest of sulcus gaps.
- Thanks to the short intraoral setting time, there is no deformation during the setting phase.

Time saving

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

More comfortable for user and patient

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



Identium®	100 mL Normal pack 1:1
Light	REF 13701
Light Fast	REF 13711

	-
Light low viscosity	
One-step impressions	
Reline impressions	
highly recommended	recommended







We Take Precision to Heart.

Panasil[®]: Perfect impressions – even in a moist environment.







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 impression

(2-step)	step)
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CON AR							
Tray material	Mixing	Working time at 23 °C	Intraoral working time	Intraoral setting time	Total setting time*	Special feature	Page
Panasil [®] binetics Putty Fast	A	1:30 min.	-	2:30 min.	4:00 min.	High dynamic pressure	20
Panasil [®] binetics Putty Soft	A	2:00 min.	-	3:00 min.	5:00 min.	Easily removed from the mouth	20
Panasil [®] tray Fast Heavy	A	1:20 min.	-	2:00 min.	3:20 min.	Heavy body consistency	22
Panasil [®] Putty Fast	()=	1:30 min.	-	2:00 min.	3:30 min.	Extra fast	21
Panasil [®] Putty Soft	())	2:00 min.	-	2:00 min.	4:00 min.	Easily removed from the mouth	21
Panasil [®] Putty	())	2:00 min.	-	2:00 min.	4:00 min.	High dynamic pressure	21
Light body material							
Panasil [®] initial contact X-Light	R	1:30 min.	1:00 min.	2:30 min.	4:00 min.	Initial hydrophilicity	24
Panasil [®] contact plus X-Light	R	2:00 min.	1:00 min.	2:00 min.	4:00 min.	Short intraoral setting time	25
*) Total setting time (removal from the mouth) from the st	art of the mixing						

time (removal from the mouth) from the start of the i

One-step impression

(1-step)							
Tray material	Mixing	Working time at 23 °C	Intraoral working time	Intraoral setting time	Total setting time*	Special feature	Page
Panasil [®] tray Soft Heavy	A	2:00 min.	-	2:00 min.	4:00 min.	Heavy body consistency	22
Panasil® monophase Medium	A	2:00 min.	1:00 min.	2:00 min.	4:00 min.	Universally applicable	23
Light body material							
Panasil [®] initial contact Light	R	1:30 min.	1:00 min.	2:30 min.	4:00 min.	Initial hydrophilicity	24
Panasil [®] contact two in one Light	R	2:00 min.	1:00 min.	2:00 min.	4:00 min.	Short intraoral setting time	25

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





One-step putty-wash impression

(1-step)								
C. C								
Tray material	Mixing	Working time at 23 °C	Intraoral working time	Intraoral setting time	Total setting time*	Special feature	Page	19
Panasil [®] binetics Putty Soft	A	2:00 min.	-	3:00 min.	5:00 min.	Heavy body consistency	20	
Panasil [®] Putty Soft	()=	2:00 min.	-	2:00 min.	4:00 min.	Easily removed from the mouth	21	
Light body material								
Panasil [®] initial contact Regular		1:30 min.	1:00 min.	2:30 min.	4:00 min.	Initial hydrophilicity	24	
i anaon innaar sontaot nogular	// //	1100 11111		2100 11111	1.00 1.111			

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

Monophase, fixation and pick-up impression (1-step)

Tray material	Mixing	Working time at 23 °C	Intraoral working time	Intraoral setting time	Total setting time*	Special feature	Page
Panasil [®] monophase Medium	E	2:00 min.	1:00 min.	2:00 min.	4:00 min.	High final hardness	23

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

Functional impression

(1-step)		\frown					
		Working time					
Tray material	Mixing	at 23 °C	working time	setting time	time*	Special feature	Page
Panasil [®] monophase Medium	E	2:00 min.	1:00 min.	2:00 min.	4:00 min.	Long working time	23

*) 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.

Easy processing

✓ The Fast version can be very easily trimmed.

Security thanks to precision

- ✓ Dimensionally stable elastic recovery and consistent quality thanks to exact, reproducible dosage from the easy to use large cartridge.
- ✓ Extra high dynamic pressure for optimal flow.

Always the right product

- ✓ The Fast version has a short intraoral setting time and a high final hardness (Shore A 63).
- ✓ The Soft version has a lower final hardness (Shore A 56) to ensure that it can be removed even more easily 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

Two-step impressions Foil impressions

Functional margin contouring

highly recommended recommended





Not available in all markets.

Panasil[®] Putty Fast, Putty Soft and Putty







Panasil[®] Putty is a classic kneadable precision impression material available in a tub. Thanks to continuous refinement, you benefit from 35 years of experience, quality, and reliability.

Easy processing

Can be very easily trimmed.

Precise while also very cost effective

- Dimensionally stable and outstanding price/ performance ratio.
- ✓ Extra high dynamic pressure for optimal flow.

Always the right product

- The Fast version has a short intraoral setting time and a high final hardness (Shore A 66).
- ✓ The Soft version has a lower final hardness (Shore A 60) to ensure its removal from the mouth is even easier.

Light body Panasil[®] adhesive Page 24, 25 Page 51





Panasil® Putty Fast | short intraoral setting time

Panasil® Putty Soft | reduced final hardness

One-step putty-wash impressions

Panasil[®] Putty | high dynamic pressure

One-step putty-wash impressions

highly recommended recommended

Functional margin contouring

Functional margin contouring

Two-step impressions

Two-step impressions Foil impressions

Two-step impressions

Foil impressions

Foil impressions

	\bigcirc				
Panasil®	900 mL Normal pack 1:1 1 x 450 mL catalyst paste, 1 x 450 mL base paste, 2 dispensing scoops	3600 mL Economy pack 1:1 4 x 450 mL catalyst paste, 4 x 450 mL base paste, 2 dispensing scoops			
Putty Fast 🔪 🔪	REF 11141	REF 11143			
Putty Soft	REF 11121	REF 11123			
Putty	REF 11101	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.

Easy processing

✓ High dynamic pressure and can be very easily trimmed.

Security thanks to precision

✓ Dimensionally stable elastic recovery and consistent quality thanks to exact, reproducible dosage from the easy to use jumbo cartridge.

Always the right product

- ✓ The Fast version has a short intraoral setting time and a high final hardness (Shore A 62).
- ✓ The Soft version has a lower final hardness (Shore A 55) to ensure that it can be removed even more easily from the mouth.

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Light body		Page
Dynamic mixers	REF 17900	F
Electrical dosing and mixing of	devices	F
Panasil [®] adhesive		F
Dispensing guns		F



Panasil® tray Fast Heavy | short intraoral setting time Two-step impressions One-step impressions

Panasil® tray Soft Heavy | reduced final hardness One-step impressions Functional impressions

highly recommended

recommended





Panasil®	380 mL Intro pack 5:1 - 380 mL cartridge, 10 dynamic mixers	760 mL Refill pack 5:1	100 mL Normal pack 1:1
tray Fast Heavy > >	REF 14704	REF 14705	REF 13551
tray Soft Heavy 📃	REF 14706	REF 14707	REF 13541
tray Soft Heavy Fast 🔉 🔊	-	-	REF 13561

Panasil[®] monophase Medium



23





Precise impressions

- Flows optimally and, thanks to its exceptional initial hydrophilicity, also ensures reliability and precision in difficult oral situations.
- ✓ Dimensionally stable elastic recovery properties.

Universally applicable

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

Perfectly customized

The practical, short intraoral setting time (2:00 min) combined with high final hardness (Shore A 60) enable particularly precise impressions of the threedimensional relationships in the fixation.

Panasil [®] monophase Medium medium viscosity
Monophase impressions
Fixation impressions
Functional impressions
Pick-up impressions
One-step impressions
Reline impressions

recommended

highly recommended





Panasil[®] initial contact X-Light, Light, and Regular





Panasil[®] initial contact is a low-viscosity impression material based on A silicone with a particularly high initial hydrophilicity for precision impression technique – and is reliable even in extreme situations.

Precise impressions

- Flows optimally and, thanks to its exceptional initial hydrophilicity, also ensures reliability and precision in difficult oral situations.
- ✓ Dimensionally stable elastic recovery.

Easy processing

 Fast and easy to apply using all conventional dispensing guns such as Applyfix[®] 4 for impression materials.

Easy to work with

 Low viscosity and stable at the same time, practical working time, short intraoral setting time. X-Light | very low viscosity | purple Two-step impressions Reline impressions One-step impressions One-step putty-wash impressions

Light I low viscosityl light green One-step impressions Reline impressions Foil impressions Two-step impressions One-step putty-wash impressions

Regular | medium viscosityl grayOne-step putty-wash impressionsFoil impressionsOne-step impressions

Reline impressions

highly recommended

recommended



Panasil[®] contact plus X-Light and two in one Light







Panasil[®] contact is a low-viscosity impression material based on A silicone for precision impressions. The dimensionally stable elastic recovery properties produce exceptionally precise results.



Flexible setting characteristics

- ✓ Flexible total working time of 30 to 120 seconds.
- Always the same short intraoral setting time of 2 minutes.

Easy processing

 Fast and easy to apply using all conventional dispensing guns such as Applyfix[®] 4 for impression materials.

Easy to work with

- ✓ Low viscosity and stable at the same time.
- Precise impressions.
- ✓ Dimensionally stable elastic recovery.

contact plus X-Light very low viscosity purple
Two-step impressions
Reline impressions
One-step impressions
One-step putty-wash impressions

contact two in one Light | low viscosity | light green One-step impressions

One-step putty-wash impressions Foil impressions

Reline impressions

highly recommended recommended





Not available in all markets

25



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Lastic[®] – High Quality, Low Costs.



Lastic[®] Xtra Putty, 90 Fine and function Medium



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High precision for your impression technique

- Good elastic recovery, high elasticity, and easy to remove from the mouth.
- ✓ Suitable for two-step impression (Lastic[®] Xtra Putty and Lastic[®] 90 Fine) and functional/one-step impression techniques (Lastic[®] function Medium).

User-friendly setting characteristics

- Variable setting time possible by specifically dosing the activator.
- Sufficient working time, relatively short intraoral setting time.

Very cost-effective

 Manual mixing of the materials for a decidedly costeffective procedure.

One-step putty-wash impressions Medium | medium-viscosity functional impression material Functional impressions One-step impressions Reline impressions 90 Fine | low-viscosity impression material Two-step impressions Reline impressions

(A)

Xtra Putty | kneadable preliminary impression material

One-step impressions

Two-step impressions

Functional margin contouring

Foil impressions

One-step putty-wash impressions

highly recommended recommended



Not available in all markets.



Futar[®] – The Fascination of Perfection. Precise bite registration at the highest level.







The Futar $^{\tiny (\!\!\!\!)}$ family of products includes 6 injectable 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 with the right final hardness and working time.

Dental arch

8							_
		Working time at		Total active			
Bite registration material	Mixing	23 °C	time	time*	Special feature	Page	29
Futar®	7	0:30 min.	1:30 min.	2:00 min.	Hard material	32	20
Futar® D	A	0:30 min.	1:30 min.	2:00 min.	Especially hard material	31	
Futar [®] D Slow	R	1:30 min.	3:00 min.	4:30 min.	Especially hard material with a long working time	33	

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

Segment

						\triangleleft
Bite registration material	Mixing	Working time at 23 °C	Intraoral setting time	Total setting time*	Special feature	Page
Futar® Fast	A	0:15 min.	0:45 min.	1:00 min.	Hard material, rapid setting	32
Futar® D Fast	7	0:15 min.	0:45 min.	1:00 min.	Especially hard material, rapid setting	31
Futar [®] Cut & Trim Fast	7	0:15 Min.	0:45 Min.	1:00 Min.	especially hard material, can be handled flexibly, scanable	30

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

Futar[®] Cut & Trim Fast





30

New Futar® Cut & Trim Fast is a fast-set syringeable elastomeric A silicone for bite registration with an extra high final hardness.

Precision

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

Flexible working

- Easy to process with a bur and to cut with a scalpel.
- ✓ Also scanable for CAD/CAM working.

Safes time

- 15 seconds working time and a really fast setting time of 45 seconds.
- ✓ Final registration in only 1 minute.

Safes money

Mixing tips, yellow, 100 tips

Dispensing guns

✓ By using the short yellow mixers, two registrations more with every cartridge are possible to create.

REF 17240

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•
Futar [®] Cut & Trim Fast 15-seconds working time
Bite registration (segment)
Loading the bite fork
Scanable bite registration
Registration in orthodontics
Bite registration (full dental arch)
Bite registration (full dental arch)

highly recommended recommended







Not available in all markets.

Futar® D, Futar® D Fast





Futar[®] D is an syringeable elastomeric A silicone for bite registration with an extra high final hardness.

Precision

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

Easy to work with

Easy to handle and easy to process with a bur.

Stable

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

Modern setting characteristics

- Regular set: comfortable working time (30 seconds), short intraoral setting time (90 seconds) for ease of use.
- ✓ Fast set: short working time (15 seconds), extra short intraoral setting time (45 seconds): the registration is ready in just 1 minute.

Futar [®] D 30-seconds working time
Bite registration (full dental arch)
Loading the bite fork
Registration (general)
Registration in orthodontics
Bite registration (segment)

 Futar® D Fast | 15-seconds working time

 Bite registration (segment)

 Loading the bite fork

 Registration (general)

 Registration in orthodontics

 Bite registration (full dental arch)

 highly recommended





	1 x 50 mL cartridge, 6 green mixing tips	2 x 50 mL cartridges, 6 green mixing tips	10 x 50 mL cartridges, 30 green mixing tips
Futar [®] D	REF 11939	REF 11932	REF 28278
Futar® D Fast	REF 11960	REF 11961	REF 28279

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Futar[®] is an injectable elastomeric A silicone for bite registration with high final hardness.

Precision

 The high final hardness (Shore A 90) minimizes compression when mounting the models in the laboratory.

Easy to work with

Easy to handle and easy to process with a scalpel.

Stable

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

Modern setting characteristics

- Regular set: comfortable working time (30 seconds), short intraoral setting time (90 seconds) for ease of use.
- ✓ Fast set: short working time (15 seconds), extra short intraoral setting time (45 seconds): the registration is ready in just 1 minute.



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

Futar® Fast I 15-seconds working time Bite registration (segment) Loading the bite fork Registration (general) Registration in orthodontics Bite registration (full dental arch) highly recommended recommended















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

Easy to work with

✓ Easy to handle in the 1:1 cartridge (50 mL) and easy to process with a bur.

Stable

 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 working 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.





Futar [®] D Slow 90-seconds working time
Bite registration (time consuming)
Myocentric bite registration
Functional margin contouring
Bite registration (full dental arch)
Registration (general)
Registration in orthodontics
highly recommended recommended





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Dispensing guns



Mucopren[®] Soft for Relining. Strong Bond Guaranteed!



Mucopren[®] Soft







Monopren® Soft is a soft relining material based on A silicone for direct and indirect application.

Comfortable processing

- Can be used chairside and is applied in just a few minutes.
- ✓ Mucopren[®] Soft can be easily processed with scalpel and bur.

Very comfortable for patients

- ✓ The particularly smooth, hydrophobic silicone surface offers protection against microbial contamination.
- ✓ Permanently elastic.

Durable

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



highly recommended recommended







Restoratives





Visalys[®] Core – A strong core is the best foundation.





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 lightcuring single-step adhesives.
 Visalys[®] Core adheres exceptionally well to lightcuring or dual-curing single-stage or multi-stage 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

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

Two indications, one material

✓ For core build-up and root post cementation.

Makes work easier

- 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 build-up still has excellent stability and can be easily modeled – also without matrices.
- ✓ Visalys[®] Core is precise and can be ground similar to dentin. Light curing in only 20 seconds.

REF 13865



highly recommended recommended



Mixing tips, brown, 50 tips Mixing tips, yellow, short, 50 tips Dispensing guns REF 17232 Page 52 REF 17230 Page 52 Page 53





REF 13871

Double syringe Cartridge Visalys[®] Core 5 mL Intro pack 1:1 10 mL Normal pack 1:1-25 mL Normal pack 1:1 1 x 5 mL double syringe, 10 brown mixing tips, 2 x 5 mL double syringe, 20 brown mixing tips, 1 x 25 mL cartridge, 20 yellow mixing tips, 5 intraoral tips, 5 endo tips, 1 plunger 10 intraoral tips, 10 endo tips, 2 plungers 20 intraoral tips White REF 13866 REF 13860 **REF 13870**

REF 13861

Dentin



Visalys[®] Temp – Fracture resistant, comfortable, impressive.

The temporary crown and bridge material from Kettenbach

Simply professional.













Exceptionally stable and fracture resistant

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

Easy to use

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

High aesthetics

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

Visalys [®] Temp	50 mL Normal pack 1:10 50 mL cartridge, 15 blue-orange mixing tips	250 mL Bonus pack 1:10 5 x 50 mL cartridges, 15 blue-orange mixing tips
Shade A1	REF 13780	-
Shade A2	REF 13781	REF 13794
Shade A3	REF 13782	REF 13795
Shade A3.5	REF 13790	-
Shade B1	REF 13784	-
Shade BL	REF 13788	_

Visalys[®] Temp

4-week temporary restoration

Long-term temporary restoration

highly recommended recommended



REF 13789

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Other products

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Other Products

















Silosept[®] is an immersion disinfectant and cleaning agent for dental impressions and dental instruments.

Safe immersion disinfection for all types of impressions

- ✓ The entire surface is easily wetted.
- For impressions made of silicone (A silicone, C silicone), polyether, alginate, Vinylsiloxanether[®].

Broad spectrum of action

- Disinfectant solution is changed daily which is a big plus for hygiene and cleanliness.
- Reliably eliminates the relevant microbial spectrum: bacteria, fungi, HBV, HCV, HIV, and TbB.

Simple, cost-effective handling

- Concentrate: one tub produces 40 L immersion solution.
- Easy to transport, saves storage space, effort, and waste.
- Completely biodegradable.



Immersion disinfection for dental impressions Immersion disinfection for dental laboratory instruments

highly recommended recommended















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

Saves time and money

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

Simple and varied handling

- ✓ Suitable for inlays/onlays or single crowns.
- ✓ Stable, grooved tray margin for high strength; thin, mobile, tear-proof gauze for precise impression results.













Spacer and separating foil for impression and acrylic techniques.

Easy to handle

- Paper-thin with high tear resistance, elastic and stretchable.
- Elaborate preparation such as trimming or placing drainage grooves is not required for the preliminary impression.

Ready to use

 Polyethylene sections (95 x 95 mm, 25 µm): colorless, transparent, for single use.













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

✓ Clean and easy dispensing, non-stick, smooth kneading.

Easy to process

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

All the advantages of an A silicone

✓ Dimensionally stable, high impression reproduction, linear dimension change \leq -0.1%.



Fracture repairs

Crack repairs

highly recommended recommended







10 kg Economy pack 1:1 1 x 5 kg catalyst paste, 1 x 5 kg base paste, 2 x dispensing scoops

REF 11153

Orthoskavident[®] C



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Cleaning and drying prepared cavities and tooth stumps

highly recommended recommended

Orthoskavident[®] C is a application liquid 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.
- ✓ Sealing teeth; adhering brackets in orthodontics, etc.



150 mL Normal pack	450 mL Economy pack
REF 13063	REF 13065



Accessories















Best possible retention of the impression in the impression tray

✓ Adhesive and impression material are coordinated in terms of their chemistry.

Identium[®] Adhesive

✓ Specifically for Vinylsiloxanether[®] impression material (Identium®).

Panasil[®] Adhesive

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

Reto® Adhesive

✓ Specifically for all condensation-curing impression materials (C silicones) such as Lastic®.

Mucopren® Adhesive

- ✓ Optimal adhesion of Mucopren[®] Soft to acrylic dentures.
- ✓ Prevents the formation of gaps between the denture acrylic and the reline silicone.





tium [®] Adhesive	Panasil [®] Adhesive	Reto [®] Adhesive	Mucopren®
	10 mL bottle	10 mL bottle	10 mL b

REF 14204

REF 14101

Adhesive ottle

REF 14203

REF 16201

Iden



Dynamic mixers, mixing tips, intraoral tips, endo tips







50 tips REF 17225 96 tips REF 17222







Not available in all markets.



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Applyfix[®] 4, Applyfix[®] 5, Applyfix[®] 6, Applyfix[®] 8



Applyfix[®] 4

 Plastic dispensing gun for 50 mL cartridges with a 1:1/2:1 ratio.

Suitable for: Identium[®], Panasil[®], Futar[®] and Mucopren[®] Soft.

Applyfix[®] 5

 Plastic application syringe (with replacement tips) for precise application of injectable impression materials.
 Suitable for: Identium[®], Panasil[®], Lastic[®].

Applyfix[®] 6

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

Applyfix[®] 8

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













Electrical dispensing and mixing system for automatic mixing of impression materials in the Kettenbach 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

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

Hygienic and reproducible

- ✓ Standardized dispensing and mixing at the touch of a button, independent of the operator.
- Simple and hygienic with electronic processes replacing manual operation.

Adjustable extrusion speed

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

Guaranteed reliable technology

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





Sympress	Wall mounting bracket for Sympress	Unit cover for Sympress	Pressure plate for Sympress	Base for Sympress
REF 35910	REF 35908	REF 35905	REF 35906	REF 35907

Not available in all markets.

Kneading fork, mixing spatula, mixing pad



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Kneading fork

 Made of stainless steel for homogeneous mixing of base and catalyst paste.

Mixing spatula

 Made of stainless steel for low, medium, and high viscosity impression materials.

Universal mixing pad

- ✓ Dimensions: 210 x 148 mm, laminated.
- For easy mixing of tube or putty materials with paste hardener.



Lastic®

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Simply intelligent



Using Identium[®] Heavy / **Identium**[®] Light Preparation of a one-step impression







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.



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.



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



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.













Silosept®

Identium[®] Light

When using a 50-mL cartridge for the first time, extrude a small amount of impression material until both materials are uniformly forced out. Note the total processing time!

Warning:

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

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

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.

Using Panasil® binetics Putty **with Panasil®** initial Preparation of a correction impression



contact X-Light





Using Identium® Medium Preparation of an implant impression









Insert into and remove from the patient's mouth

0.

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.



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Check and, if necessary, reposition the impression posts Check that the transfer posts are correctly positioned.



Disinfect the impression Follow the manufacturer's instructions.





Silosept®

It is recommended to carry out

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.

Warning:

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

®

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Using Visalys® Temp Preparing a temporary restoration

Take an anatomical impression

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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

Scalpel

It is recommended to use an A silicone such as Silginat® (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) save time and are cost effective.

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.

During the constant using please consider to discard a small amount of composite until both materials extrude uniformly before you fill the impression to ensure a correct mixing ratio.

Tip: Start the stopwatch before filling the impression so that the working time can be checked.

After filling the impression, place a pea-sized quantity of material on the back of a gloved hand; this enables the level of hardness to be checked outside the patient's mouth.

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



Visalys® Temp, Applyfix® 6 dispensing gun, blue-orange mixing tips

Stopwatch



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.

First use

For the first use of the cartridge take care that both materials extrude uniformly. This is only necessary by using the cartridge the first time.

Application into the impression

Fill from the occlusal surface

outwards. The end of the mixing

tip should always remain in the

go beyond the gingival margin.

material to prevent inclusion of air.

The quantity of material should not

















Check the correct removal time

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



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.



Finish

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

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.

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.





Stopwatch

Probe;

hand

alternatively: sample

on the back of the









Cross-cut stainless steel bur; narrow bur; disc

Composite polishers, cotton buff, goat hair brush

Temp. cement

If the material on the back of the hand has the desired consistency, the temporary restoration can be removed.

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.

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.

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.

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

Eugenol can have a negative effect on the curing of composite luting cement; if composite materials are planned for the permanent restoration, a eugenol-free temporary luting cement should be used to cement the temporary restoration.

Using Visalys® Core Adhesive cementation of prefabricated root posts combined with core build-up



Preparation







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].

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.



Adjust the root post

Prepare the post bed

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.



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 Visalys[®] Core is flowable and adjusts optimally to the situation but is also stable enough to freely build up a core. 20 seconds light curing for a polymerization depth of 2 mm. 5 minutes chemical curing for unlimited polymerization depth.

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Prep After

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.

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- 4. Hemmings K. W., King P. A., Setchell D. J. Resistance to torsional forces of various post and core designs. The Journal of prosthetic dentistry 66.3 (1991): 325-329.
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