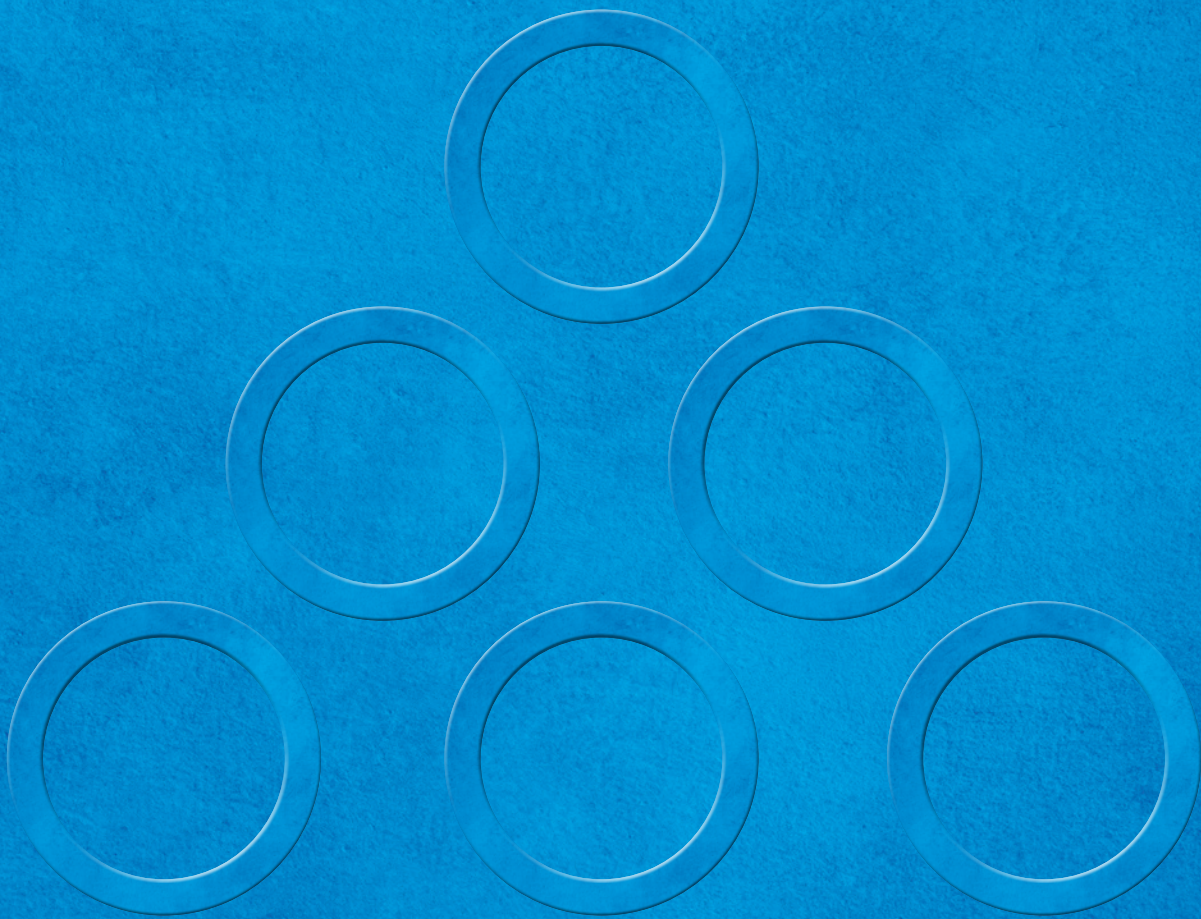


KETTENBACH DENTAL PRODUCTS



KETTENBACHDENTAL

Simply intelligent



SOOO PROTECTED

WITH PROFISIL® FLUORIDE VARNISH



A new dimension of Varnish Gel

Profisil® is a Fluoride Varnish containing 5 % sodium fluoride in a mucosa-friendly, pleasantly flavored dimethicone gel. This formula is not made with ethyl alcohol or colophony (rosin), thus reducing the potential of soft tissue irritation or rosin-based allergies.

MINT

BERRY

UNFLAVORED



Product properties

- Designed to securely adhere to the tooth surface for several hours while releasing fluoride ions up to 24 hours
- Transparent and colorless after applying for optimal aesthetics
- Constant viscosity and easy to spread
- Available as single dose unit including a brush

Benefits for the dental professional

- The single dose blister contains sufficient varnish to cover all affected teeth of both arches
- It can be applied in any direction to all affected tooth surfaces, migrating even to difficult to access areas
- A prophylactic cleaning is not required prior to use
- Unnecessary to dry teeth prior to application of the varnish gel
- Lubricious, non-clumping formula, no need to replace gummy brushes

Benefits for the patient

- Smooth teeth feel and refreshing lubricating properties
- Protective coating on tooth surfaces by occluding tubules with calcium fluoride crystals
- No bitter taste or burning, not made with ethyl alcohol
- Non-allergenic dimethicone formula
- Suitable for all ages including children with primary teeth



MORE TECHNICAL
INFORMATION





SOOO SUPER
WITH FUTAR®



Eight choices to achieve maximum precision without slumping.

Fast-setting, syringeable bite registration material (VPS-silicone) with a high final hardness for exact recording of occlusal relationships.



User advantages

- Choose from precise results, maximum convenience, highest quality
- Choose from a wide range of product viscosities for the correct material for every indication
- No rebound when aligning the models, reduces chairside adjustments at seating
- Simple handling

Product properties

- Hard (Shore-A 90) or extra-hard (Shore-D 43) material
- Quick, extra-quick or extra-long working time
- Short or extra-short intraoral setting time
- Elastomeric, stable storage, can be cut or trimmed, very thixotropic
- Also available in a Clear set when optical clarity is of benefit, shore hardness A-62

Benefits for the dentist

- Non-slumping, easy handling during application, removal, and alignment
- Quick-setting characteristics save time in practice
- Wide range of products ensures the optimum material to increase accuracy
- Consistently top quality from the market leader = complete reliability of a precision bite registration

Final Hardness (Shore)

Futar® / Futar® Fast	Futar® Easy / Futar® Easy Fast	Futar® D / Futar® D Fast	Futar® Clear Fast	Futar® D Slow
A 90	A 90	D 43	A62	D 43

Technical Data

	Futar®	Futar® Fast	Futar® Easy	Futar® Easy Fast	Futar® D	Futar® D Fast	Futar® Clear Fast	Futar® D Slow
Working time at 23° C/74° F ≤	30 sec.	15 sec.	30 sec.	15 sec.	30 sec.	15 sec.	15 sec.	1 min. 30 sec.
Intraoral setting time at 35° C/95° F ≥	1 min. 30 sec.	45 sec.	1 min. 30 sec.	45 sec.	1 min. 30 sec.	45 sec.	45 sec.	3 min.
Total setting time* ≥	2 min.	1 min.	2 min.	1 min.	2 min.	1 min.	1 min.	4 min. 30 sec.
Hardness (approx.) Shore	A 90	A 90	A 90	A 90	D 43	D 43	A 62	D 43

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



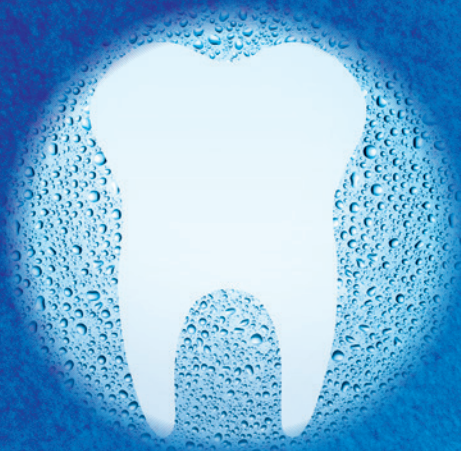
THIS MATERIAL IS AMAZING!

I feel like this is what I have been looking for. Very easy to extrude. When I first started to extrude it, it reminded me of Blu-Mousse® as it came out so easy, stacked, did not run or roll at all, even on wet teeth. Futar® Easy and Futar® Clear Fast rock my world.

— Dr. Michael Melkers/Hanover, NH



¹⁾ 5+ rating for Futar Fast only



SO O O PRECISE
IS **PANASIL®**

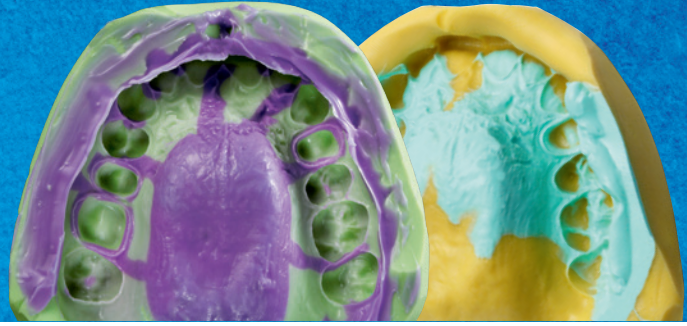


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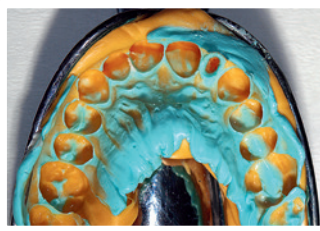




PANASIL®



Superior hydrophilicity for superior performance!



Photos by Hubert Christian Roggendorf, D.D.S. – Department of Prosthodontics Center of Dento-Maxillo-Facial Medicine, Rheinische Friedrich-Wilhelms University of Bonn, Germany

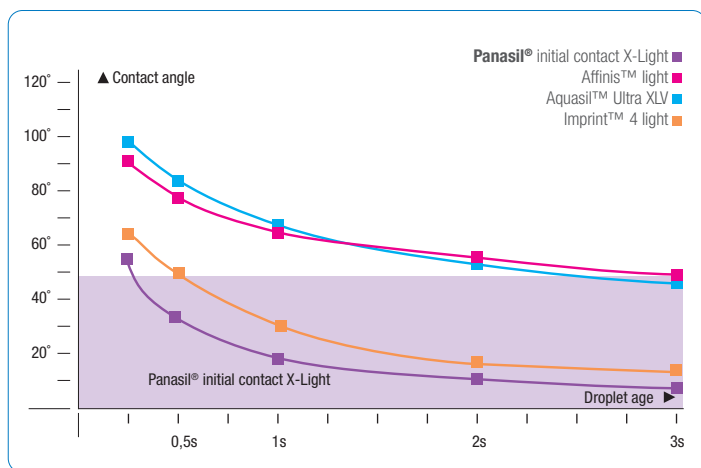


In a study*, A-silicones and polyether were tested with respect to their wetting properties using video and high resolution contact angle measurements during the working time.

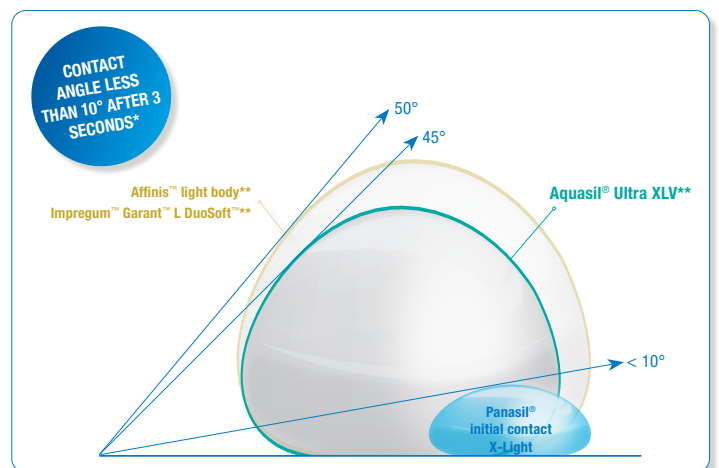
On the basis of initial hydrophilicity (quantified via the initial contact angle) and hydrophilic kinetics (spreading capacity of the water drop), both initial hydrophilic and high hydrophobic A-silicones were observed.

The time of initial contact and the speed at which the liquid spreads play a decisive role in improving the precision of an impression. Furthermore, it is important for the hydrophilicity to be retained throughout the entire working time of the material, not just at the beginning. The tested materials displayed a continuous decrease in hydrophilicity, while the hydrophilicity of the A-silicone Panasil® initial contact remained consistent throughout the entire working time.

Attains top values fastest



Measurements were carried out by Kettenbach Dental on the premises on the basis of respective DIN/ISO standard measurement specifications



Panasil® initial contact X-Light shows extremely fast spreading of the water drop and reaches the lowest contact angle after 3 seconds compared to the competitive materials

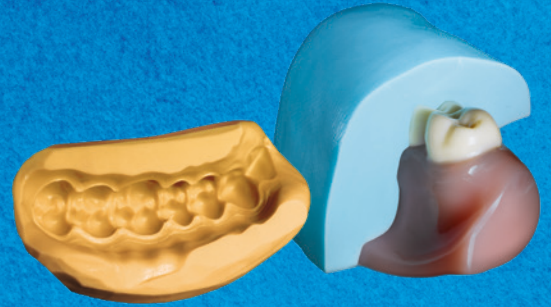
* Comparative test carried out by Kettenbach Dental contact angle measured using the measuring device DAS 100, from Kruss, 2006. Evaluated using the circle-fit method.

** Affinis Light™, Aquasil Ultra XLV™, and Impregum™ are not registered or trademarked by Kettenbach Dental.



PANASIL® LAB PUTTY

PANASIL® LAB PUTTY SOFT



Overcast material for lab use.

Panasil® lab Putty and **Panasil® lab Putty Soft** are kneadable, addition-curing overcast materials based on vinyl polysiloxane. When the laboratory procedure has to be completed quickly and without complication: Panasil® lab Putty products possess the ideal characteristics for use as an overcast and bite index material due to its high final hardness. Other laboratory procedures can also be easily completed, e.g. fabricating models for repairing fractures and cracks. Panasil® lab Putty and Panasil® lab Putty Soft are dimensionally stable.



Panasil® lab Putty:

User advantages

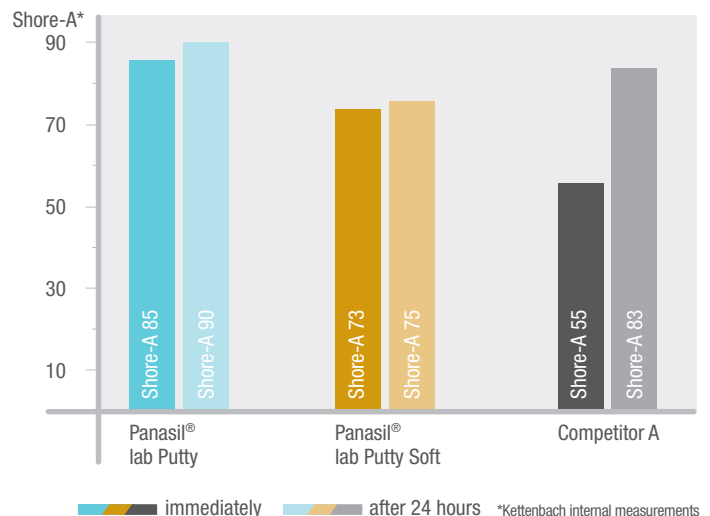
- The materials can be cleanly and easily dispensed with a 1:1 Putty mix, no messy accelerator with this system

Product properties

- Shore Hardness A-85 (Panasil® lab Putty)
- Ideal for use as an overcast and bite index material
- Can also be used for fracture repairs and crack repairs

Benefits for the dentist

- Flexible enough to remove matrix over wax up without damaging teeth
- Non-sticky, smooth kneading
- Easily cut
- Very short setting time, 6 minutes at 23° C/74° F
- Linear dimensional change $\leq -0.1\%$, very crisp details



Panasil® lab Putty Soft:

User advantages

- The materials can be cleanly and easily dispensed with a 1:1 Putty mix, no messy accelerator with this system

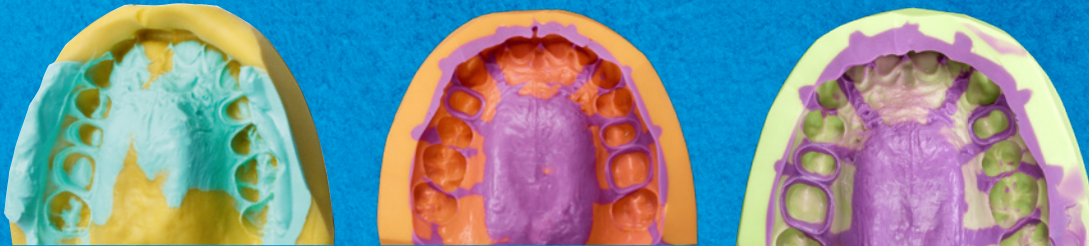
Product properties

- Shore Hardness A-73 (Panasil® lab Putty Soft)
- Ideal for model fabrication for fractured or cracked repairs on removal prosthesis
- Can also be used as an overcast material and bite index material

Benefits for the dentist

- Stiff enough to mimic a stone model for duplication in most indications
- Non-sticky, smooth kneading
- Easily cut
- Very short setting time, 6 minutes at 23° C/74° F
- Linear dimensional change $\leq -0.1\%$, very crisp details





Applications

	binetics Putty Fast	binetics Putty Soft	Putty Fast Set	Putty Fast Set	Putty Soft	tray Fast Heavy	tray Soft Heavy	monophase Medium	initial contact Light/-Fast	initial contact X-Light/-Fast	initial contact Regular
Two-step impression	■	■	■	■	■	■			■	■	
Double mix impression	■	■	■	■	■	■	■	■	■	■	■
One-step impression								■			
Fixation impression								■			
Functional impression							■	■			
Impression over fixed/removable restorations								■			
Impression for forming functional peripheries		■	■		■						
Reline impression									■	■	■

■ highly recommended

■ recommended

Technical Data

	Product name	Mixing ratio	Working time at 23° C/ 74° F ≤	Intraoral working time at 35° C/ 95° F ≤	Intraoral setting time at 35° C/ 95° F ≥	Total setting time* ≥	Hardness (approx.) Shore	Linear dimensional change (max.) %	Elastic Recovery test (approx.) %	Strain in compression (approx.) %
Mono-phase	Panasil® monophase Medium	5:1	2 minutes	1 minute	2 minutes	4 minutes	A 60	- 0.20	99.7	3.5
	Panasil® monophase Medium	1:1	2 minutes	1 minute	2 minutes	4 minutes	A 60	- 0.20	99.7	3.5
Putty	Panasil® binetics Putty Fast	5:1	1 minute 30 seconds	Not applicable	2 minutes 30 seconds	4 minutes	A 63	- 0.20	99.5	2.5
	Panasil® binetics Putty Soft	5:1	2 minutes	Not applicable	3 minutes	5 minutes	A 56	- 0.20	99.5	3.5
	Panasil® Putty	1:1	2 minutes	Not applicable	2 minutes	4 minutes	A 66	- 0.20	99.0	2.7
	Panasil® Putty Fast Set	1:1	1 minute 30 seconds	Not applicable	2 minutes 30 seconds	3 minutes 30 seconds	A 66	- 0.20	99.0	2.7
	Panasil® Putty Soft	1:1	2 minutes	Not applicable	2 minutes	4 minutes	A 60	- 0.20	99.0	2.7
Tray/ Heavy	Panasil® tray Fast Heavy	5:1	1 minute 20 seconds	Not applicable	2 minutes	3 minutes 20 seconds	A 62	- 0.20	99.7	2.5
	Panasil® tray Fast Heavy	1:1	1 minute	Not applicable	2 minutes	3 minutes	A 62	- 0.20	99.5	3.0
	Panasil® tray Soft Heavy	5:1	2 minutes	Not applicable	2 minutes	4 minutes	A 55	- 0.20	99.7	3.0
	Panasil® tray Soft Heavy	1:1	2 minutes	Not applicable	2 minutes	4 minutes	A 55	- 0.20	99.5	3.0
	Panasil® tray Soft Heavy Fast	1:1	1 minute	Not applicable	2 minutes	3 minutes	A 55	- 0.20	99.5	3.0
Wash/ Light	Panasil® initial contact Regular	1:1	1 minute 30 seconds	1 minute	2 minutes 30 seconds	4 minutes	A 46	- 0.20	99.7	3.0
	Panasil® initial contact Light	1:1	1 minute 30 seconds	1 minute	2 minutes 30 seconds	4 minutes	A 46	- 0.20	99.3	3.5
	Panasil® initial contact Light Fast	1:1	1 minute	30 seconds	2 minutes	3 minutes	A 46	- 0.20	99.3	3.5
	Panasil® initial contact X-Light	1:1	1 minute 30 seconds	1 minute	2 minutes 30 seconds	4 minutes	A 46	- 0.20	99.3	3.5
	Panasil® initial contact X-Light Fast	1:1	1 minute	30 seconds	2 minutes	3 minutes	A 46	- 0.20	99.3	3.5
Lab Putty	Panasil® lab Putty	1:1	1 minute 45 seconds	**	**	6 minutes	A 85	- 0.10	-	-
	Panasil® lab Putty Soft	1:1	1 minute 45 seconds	**	**	6 minutes	A 73	- 0.10	-	-

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

** Laboratory product values not measured



SOOOO COMFORTABLE IS IDENTIUM®

The best of both worlds

Identium® combines the advantages of two proven impression materials (polyether and VPS/A-silicone) working in perfect harmony. This unique material combination, which is available as heavy, medium and light body with normal and fast-setting variants, is ideal for the monophase or double-mix impression technique.



Greatest precision

- Remarkable hydrophilicity
- Perfect flow even with residual moisture enables preparation margins to be reliably determined
- The narrowest of sulcus gaps are also precisely recorded
- Extra-long intraoral working time, making it ideal for large restorations
- High final hardness immediately after setting ensures optimum fixation

More comfortable for user and patient

- Easy removal from the mouth
- Low risk of breakage in model fabrication
- Neutral taste and smell
- Short intraoral setting time guarantees less distortion during the setting phase
- Significantly reduced gag reflex



Changed
Cartridge System

The best of
A-Silicone & Polyether

Time saving

- Fast-setting variants of Identium® Heavy, Medium and Light allow the impression to be removed from the patient's mouth after just 3:30 minutes

Economical and safe

- Economical: no material waste before the first application
- Intuitive: simple handling

Technical Data

Product name	Mixing ratio	Working time at 23° C / 74° F ≤	Working time at 35° C / 95° F ≤ ¹⁾	Intraoral setting time at 35° C / 95° F ≥	Total setting time* ≥	Hardness (approx.) Shore	Linear dimensional change (approx.) %	Elastic-recovery test (approx.) %	Strain in compression (approx.) %
Identium® Medium	5:1 jumbo cartridge	2 min.	80 sec.	2 min. 30 sec.	4 min. 30 sec.	A 60	- 0.20	99.0	2.3
Identium® Medium Fast	5:1 jumbo cartridge	1 min. 15 sec.	40 sec.	2 min. 15 sec.	3 min. 30 sec.	A 60	- 0.20	99.0	2.3
Identium® Heavy	5:1 jumbo cartridge	2 min.	not applicable	2 min. 30 sec.	4 min. 30 sec.	A 60	- 0.20	99.0	2.3
Identium® Heavy Fast	5:1 jumbo cartridge	1 min. 15 sec.	not applicable	2 min. 15 sec.	3 min. 30 sec.	A 60	- 0.20	99.0	2.3
Identium® Light	1:1 cartridges	2 min.	80 sec.	2 min. 30 sec.	4 min. 30 sec.	A 50	- 0.20	99.0	3.8
Identium® Light Fast	1:1 cartridges	1 min. 15 sec.	40 sec.	2 min. 15 sec.	3 min. 30 sec.	A 50	- 0.20	99.0	3.8

*Total setting time (removal time from mouth) from start of mix

¹⁾ With a reduced working time the total setting time of 3 minutes 30 seconds for the fast set version and 4 minutes 30 seconds for the regular set version has always to be heeded.

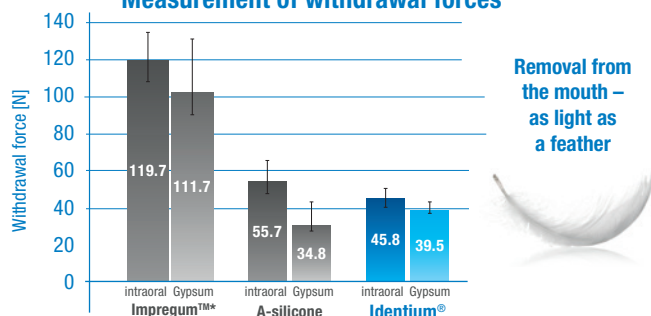


IDENTIUM®



Comfortable advantages for precise impressions.

Measurement of withdrawal forces

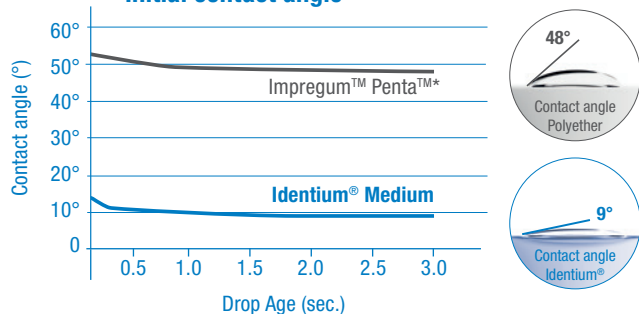


The smaller the intraoral withdrawal forces, the higher is the application comfort.

Easy removal from the mouth

Impression materials undergo major deformations during removal. Identium® has the elastomeric properties of A-silicone meaning that impressions can be comfortably removed from the patient's mouth and from plaster models. Unwanted tooth extractions in the clinic or stumps breaking off from the plaster model in the laboratory are now a thing of the past. The final elastic recovery approaches the 100 % mark.

Initial contact angle



The smaller the contact angle, the more hydrophilic the behavior of the material is.

Crisply detailed reproduction margins

If there is slight bleeding or residual saliva present, the initial networking behavior of the impression material plays a major role in the precision of the impression. Normally, even if the impression area is carefully dried, a certain residual moisture will remain that negatively impacts the precise reproduction of details. The parameters of initial hydrophilicity (quantified by the contact angle) and hydrophilic kinetics (quantified by the spread behavior of a water drop) provide useful information about the behavior of the impression material. With a first-class contact angle of less than 10° after just one second, Identium® achieves an absolute peak value for the initial hydrophilicity. Unlike other materials, Identium® is able to develop this high hydrophilicity very rapidly and maintain it throughout the entire working time.

The result is crisply detailed impressions of the preparation margin, even in extreme situations.



SOOO RELIABLY TRANSFERRED WITH VSXE® ONE

The new NUMBER ONE for monophase impressions

VSXE® One is an elastomer precision impression material with vinyl polysiloxane and polyether components (Vinylsiloxanether®). Due to its high final hardness, it is especially well suited for implant impressions.



Sooo reliably transferred

VSXE® One ensures exact transfer and secure fixation of implant posts and primary crowns as well as outstanding accuracy of fit.

User and Patient Benefits

- Short intraoral setting time for precise detail and patient comfort
- Excellent flowability for finest detail reproduction and deep flowing onto and around the implant posts
- Highly thixotropic for ideal clinical control, non slumping and precise placement
- Easy removal from the mouth for patient comfort when removing the impression
- Storage stability even over a longer period for pouring out the impression multiple times
- Neutral taste and smell for patient well-being

VSXE® ONE = THE ULTIMATE FORMULA:



VIGOROUS



SEAMLESS



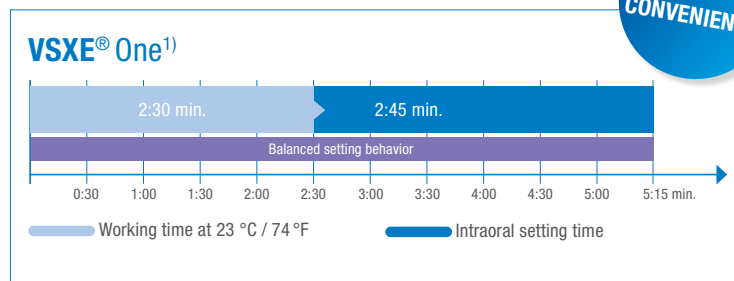
X-FORMULA



EFFORTLESS



TIME-
CONVENIENCE



Due to the short intraoral setting time, there is no deformation during the setting phase.

¹⁾ Kettenbach Dental Internal Measurement R&D, according to DIN EN ISO 4823, 2023.



Changed
Cartridge System



SOOO EFFICIENT IS SILGINAT®

The new standard for taking preliminary impressions.

Medium body, elastomeric VPS-silicone with alginate-like consistency, specially developed for taking impressions for the opposing arch, temporary crowns/bridges and for the fabrication of splints.



User advantages

- VPS-silicone with alginate-like properties
- Impression can be stored without drying out
- Maximum precision, easy removal from the mouth

Product properties

- Optimum elastic recovery
- High dimensional stability
- Very thixotropic, high flowability and low tear resistance
- Neutral or Strawberry scent

Benefits for the dentist

- Take care of all advantages by using the same material for the preliminary impression and the opposing jaw impression
- Can be poured several times, even after a long period of storage
- Ideal impression material for the fabrication of temporary restorations and splints
- Standardized, hygienic procedures in line with quality management

Economical and safe

- Economical: no material waste before the first application
- Intuitive: simple handling

Dimensionally stable
and can be poured
several times



For temporary crowns and bridges



Can be poured several times

IMPRESSION
SCAN
SYSTEM



Changed
Cartridge System



SOOO UNBREAKABLE IS VISALYS® TEMP

For strong temporary crowns and bridges.

Visalys® Temp is a temporary crown and bridge material for exceptionally stable and fracture-resistant short-term and long-term temporary restorations based on a multifunctional acrylic composite. Low shrinkage ensures well-fitting and tension-free temporary restorations, from crowns or bridges to inlays/onlays to highly esthetic veneers.



Outstanding reliability

- Exceptional fracture resistance & very good marginal stability
- Also suitable for long-term temporary restorations

Easy handling

- Well-fitting & tension-free temporary restorations due to minimal shrinkage
- Final temporary restoration can easily be added to or repaired even after curing
- Easy and precise processing

High esthetics and reliability

- High natural sheen, easy to polish even without pastes or varnish
- Tooth-like translucence and opalescence
- Free of bisphenol A, a bonus for health and our environment
- Available in A1, A2, A3, A3.5, B1, BL

Outstanding properties
for **extremely strong**
temporary restorations





VISALYS® TEMP

The result: exceptionally stable.

High flexural strength combined with high impact strength reduces the risk of the temporary restoration fracturing in the mouth as a result of high or sudden masticatory loading – for example when unexpectedly biting on a cherry pit.

Impact strength [kJ/mm²]

Visalys® Temp		12.5
Protemp™ Plus		9.5
Luxatemp® Ultra		7.8
Structur® 3		8.5
Integrity®		6.8

Measurement at the University of Erlangen, Germany, according to DIN EN ISO 179, DIN 53453

Flexural strength [MPa]

Visalys® Temp		132
Protemp™ Plus		90
Luxatemp® Ultra		113
Structur® 3		85
Integrity®		95

Internal measurements Kettenbach, according to DIN EN ISO 10477 (Feed rate: 1 mm/min)

The higher the diametral tensile strength, the lower the risk that the margins of the temporary restoration may break off.

A high E-modulus means that the temporary restoration is resistant to deformation and reliably conserves the intraoral situation until the permanent restoration is fitted.

Diametral tensile strength [MPa]

Visalys® Temp		67
Protemp™ Plus		51
Luxatemp® Ultra		51
Structur® 3		47
Integrity®		49

Internal measurements Kettenbach, according to ADA Specification No. 27:76

E-modulus [MPa]

Visalys® Temp		4152
Protemp™ Plus		2716
Luxatemp® Ultra		3937
Structur® 3		2148
Integrity®		2949

Internal measurements Kettenbach, test set-up according to DIN EN ISO 10477



SOOO STABLE IS VISALYS® CORE

Secure bonding with your adhesive.

Visalys® Core is a dual-curing composite for difficult and freehand core build-ups, as well as root post cementation. Special network formers ensure a reversible interaction between the fillers and give the user the ability to control the stability of the application speed: High application pressure activates inherent shear forces and leads to faster flow of the material.

The integrated, patented Active-Connect-Technology (ACT) ensures secure adhesion with all conventional light-curing or dual-curing one-step or multi-step adhesives.

Top bond strength
with all popular brands
of adhesives!



Stable even in difficult situations

- Excellent stability (even without matrices) and at the same time very good flowability
- Self-curing property ensures reliable core build-ups even in sites with no light access
- Core build-ups are pressure resistant, stable, and form a reliable monoblock comprising root post and core build-up

Reliable adhesive bond for durable restorations

- Completely without additional activator
- Can be used with conventional adhesives: regardless whether light-curing or dual-curing, one-step or multi-step system
- Possible due to the patented Active-Connect-Technology (ACT)

Simple and reliable working

- Dentin-like grindability
- Low application force
- Light curing for immediate further processing
- Free of bisphenol A, a bonus for health and our environment





SO ARTFUL WITH VISALYS® FILL & VISALYS® FLOW

With your esthetic skills, restorative fillings can be a piece of art.

With **Visalys® Fill** and **Visalys® Flow** we offer new materials in the field of direct restorations with amazingly pleasant handling, an easy color system and impressively long lasting color stability. These materials are usable for all indications regarding the direct filling therapy as well as composite inlays.



Long filling durability

- Minimal discoloration due to low water absorption
- Low wear resulting from sophisticated filler technology for durable fillings

Visalys® Fill is suitable for

- All Class I to VI fillings
- Repairing defective fillings and core build-ups under crowns
- Esthetic shape correction

Visalys® Flow is suitable for

- Lining
- Filling minimally invasive cavities of all classes
- Repairing defective fillings



The **FLEX SHADE SYSTEM** allows you to work efficiently with just 7 SHADES for esthetic restorations

Here you see the **Visalys® Fill & Visalys® Flow** main shades on the left and the optimal correlation with the **Vita shades®** on the right.

PRODUCT SHADES	VITA TEETH (incl. filling made of Visalys® Fill shades) ¹⁾			
A1 LIGHT BRIGHT				
A2 BRIGHT				
A3 MEDIUM BRIGHT				
A3.5 MEDIUM DARK				
A4 DARK				

CAVITY
(starting situation)

In case of particularly light tooth shades, use **BL shade®**

PRODUCT SHADE	VITA TEETH (incl. filling made of Visalys® Fill shade BL) ²⁾		
BL WHITE			

CAVITY
(starting situation)

In case of **discolored cavities**, simply cover with **OA2**

PRODUCT SHADE	VITA TEETH (incl. filling made of Visalys® Fill shades) ¹⁾	
OA2 OPAQUE		
Layer 1: filled with Visalys® Fill OA2 shade Layer 2: filled with Visalys® Fill A1 shade		Layer 1: filled with Visalys® Fill OA2 shade Layer 2: filled with Visalys® Fill A4 shade

CAVITY
(starting situation)

THIS MATERIAL IS REALLY ARTFUL!

The new Visalys® Fill and Visalys® Flow products are very pleasant to work with and the materials can be polished well and quickly. The fillings are very attractive: The Flex Shade System works brilliantly for light and darker teeth alike!

– Dr. Seidler, Practice: „weißblick Zahnärzte Seidler & Pflaum“, Ilmenau, Germany



1) Class 1 fillings in artificial teeth, with Visalys® Fill to demonstrate the consistency of the Flex Shade System.
2) Class 4 fillings in artificial teeth, with Visalys® Fill to demonstrate the consistency of the Flex Shade System.



VISALYS® FILL

Visalys® Fill is a light-curing universal Nano-Hybrid-Filling-composite, which impresses with user-friendly handling and fantastic mechanical properties, as well as tooth-like esthetics. Visalys® Fill can be used for stable and long-lasting fillings due to its high proportion of inorganic fillers.



Low water absorption

- Water absorption: 12.3 µg/mm³
- Prevents discoloration of fillings
- For long-lasting esthetics

Outstanding mechanical properties

- High filler content: 87% (including silane)
- Excellent flexural strength: 147 MPa

Very high inorganic filler content

- For good stability that lasts
- For excellent compatibility due to high biocompatibility

Low shrinkage

- Shrinkage: 2.2 vol.% (method: Archimedes)
- For long lasting restorations
- For anchoring the filling in the tooth cavity
- Reduces the risk of marginal gaps and secondary caries

The high inorganic percentage leads to excellent color stability:

H ₂ O ²⁾	Coffee ²⁾	Wine ²⁾

Inorganic Percentage

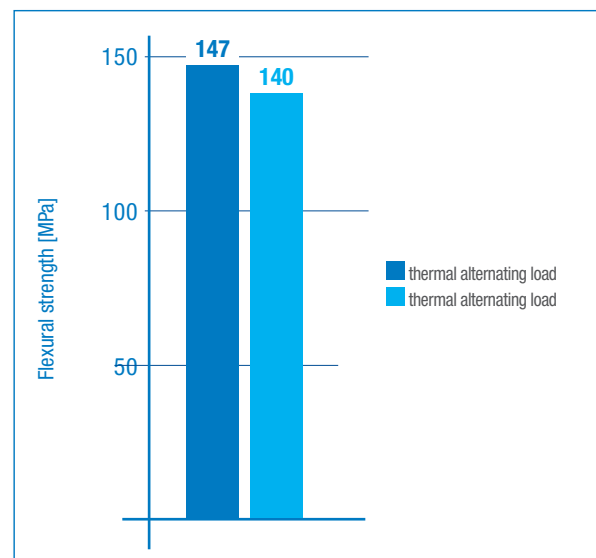


84.7%
Visalys® FILL

More **Glass**
than **Plastic**

Flexural strength before and after thermal alternating load¹⁾

¹⁾Even after repeated thermal treatments the flexural strength is scarcely reduced.



Available in syringe and caps



VISALYS® FLOW

Visalys® Flow is a light-curing universal Nano-Hybrid-Filling-composite, which impresses with its thixotropic behavior and fantastic mechanical properties, as well as its tooth-like esthetics. Due to its excellent flow properties, and thanks to its self-leveling effect and low shrinkage, Visalys® Flow is ideal for use as a liner.



Low water absorption

- Water absorption: 15.3 µg/mm³
- Prevents discoloration of fillings
- For long-lasting esthetics

Outstanding mechanical properties

- High filler content: 80% (including silane)
- Excellent flexural strength: 112 MPa

Very high inorganic filler content

- For good stability that lasts
- For excellent compatibility due to high biocompatibility

Low shrinkage

- Shrinkage: 6.3 vol.% (method: Archimedes)
- For long lasting restorations
- For anchoring the filling in the tooth cavity
- Reduces the risk of marginal gaps and secondary caries

The high inorganic percentage leads to excellent color stability:

H ₂ O ²⁾	Coffee ²⁾	Wine ²⁾

Inorganic Percentage

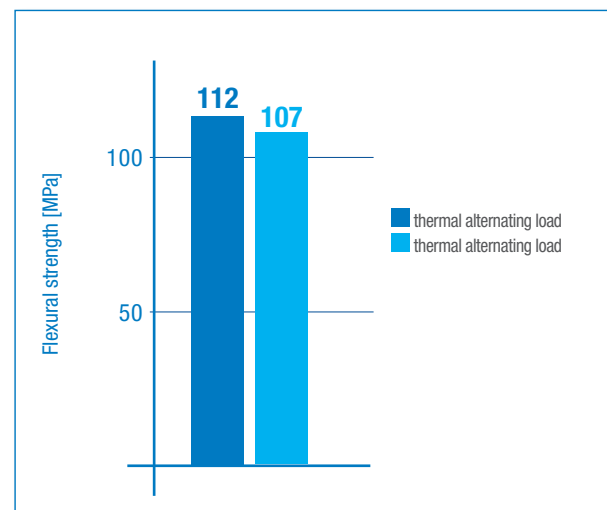


77.1%
Visalys® FLOW

More **Glass**
than **Plastic**

Flexural strength before and after thermal alternating load¹⁾

Even after repeated thermal treatments the flexural strength is scarcely reduced.



¹⁾ Kettenbach Internal Measurement R&D, according to DIN EN ISO 4049, 2022 | ²⁾ Shade stability after 24 hours storage at 37°C



SOOO SMART IS VISALYS® CEMCORE

Always the same protocol,
regardless of the type of
indirect restoration.

Suitable for permanent cementation:

Visalys® CemCore is a dual-curing, adhesive cementation composite that is suitable for cementing all indirect restorations.

Suitable for all dental restoration materials:

Visalys® CemCore is compatible with all dental substrates (metal, oxide ceramic, silicate ceramic, etc.). It is indicated for all conventional restorations, such as crowns and bridges, as well as for very challenging restorations, such as Maryland bridges (adhesive bridges) that require an extreme adhesive strength and highly esthetic restorations, such as veneers that require precise working and high color stability.

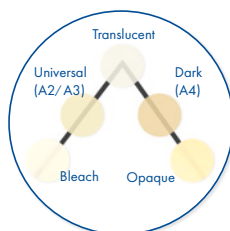
Suitable also for creating core build-ups:

Easy and safe even in difficult situations.



Safe and simple for highly esthetic regions

- Cementation of all dental restorations, even in the highly esthetic anterior region
- Can be used with all etching techniques
- No mixing of components required
- Associated primers do not have to be light-cured: no blocking due to primer coats that are too thick, reliable curing even in sites with no light access
- All components are free of bisphenol A
- Low sorption of stains due to the hydrophobic property of Visalys® CemCore, prevents staining of the cement joint
- The right shade for every patient:
5 shades each **with a matching try-in paste**



The luting composite for
ALL indirect restorations.

Only 3 components



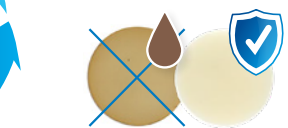
A universal adhesive
cementation and
core build-up composite

Self-etching primer
(for all etching
techniques)



Primer for all
restorations
(10-MDP, integrated
silane)

High color stability



The hydrophobic property
minimizes the absorption of colors



VISALYS® CEMCORE

Secure adhesion and long life

The **high quality of the marginal gap** of Visalys® CemCore represents the high quality bond between the dental substance and the composite.

Source: Prof. Dr. Roland Frankenberger et al. (2019), *Marginal Quality of Ceramic Inlays luted with Visalys® CemCore*, University Marburg

¹⁾ Outstanding adhesion results with patented Active-Connect-Technology.
More Information: www.kettenbach-dental.com/act



No debonding and no fracture, even after **10 years** of simulated oral use.

Source: Prof. Dr. Dipl.-Ing. Martin Rosentritt (2020), *Fracture force after long-term storage and TCML*, University Regensburg

Smart handling

Always the same protocol, regardless of the type of indirect restoration.



Easy to remove any excess



Copyright: Dr. med. dent. Frank-Michael Maier



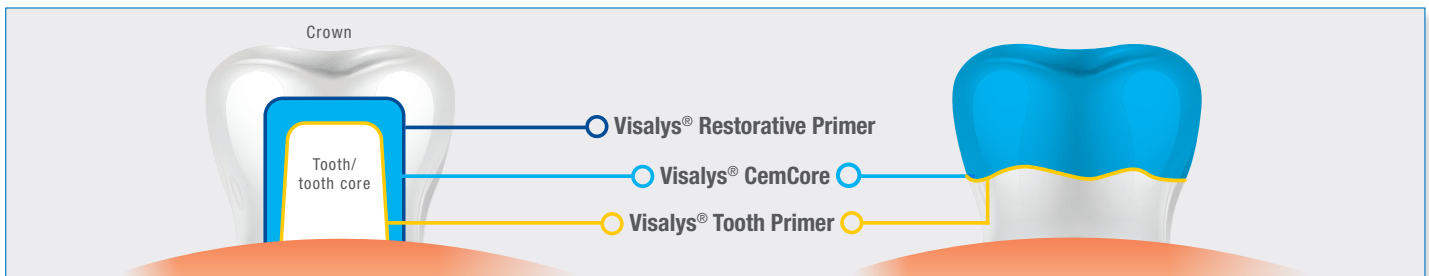


VISALYS® CEMCORE

2IN1

Less material,
lower costs, more time

Cementation and core build-up



Compatible with all materials

Restoration	Material				
	(Precious) metals	Oxide ceramic (zirconium oxide and aluminum oxide ceramics)	Silicate ceramic (feldspar and glass ceramics)	Hybrid ceramic	Composites
Veneers		✓	✓	✓	✓
Inlays/onlays/ partial crowns	✓	✓	✓	✓	✓
Crowns/bridges	✓	✓	✓	✓	✓
Maryland bridges	✓	✓			
Root posts	✓	✓			✓
Indirect core build-up	✓				



SOOO ADHERENT IS MUCOPREN® SOFT

Holds to its promises

Mucopren® Soft is a soft long-term relining material for removable dentures based on A-silicone for direct and indirect application. The material is also very useful for many other indications, like relieving the operation site after placing implants, for compensating areas of mucous membrane with varying degrees of resiliency and also for relieving sharp bony ridges.



User advantages

- Resistant to contamination*
- Can be precisely trimmed
- Excellent bond strength to the denture
- For direct and indirect application
- Simple handling

Product properties

- Excellent adhesion to acrylic dentures through patented Mucopren® Adhesive
- Smooth, hydrophobic silicone surface*
- Silicone-based sealing
- High tear-resistance

Benefits for the dentist

- Optimum requirements for hygienic denture conditions
- Long period in situ and comfort
- Modern material characteristics ensure easy, reliable handling
- Very efficient, value creation remains in the dental practice

For denture relining
without compromises!

Benefits of using the new adhesive



CHAIRSIDE

3 MIN

The processing time is reduced to only **3 minutes** following mouth removal. No water bath necessary.

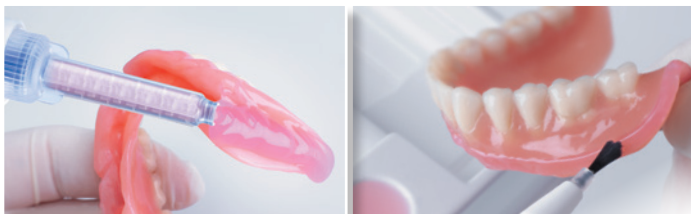


LABSIDE

3 MIN

The processing time is reduced to only **3 minutes** in the water bath or pressure pot.

ONLY A SINGLE
APPLICATION
NECESSARY



New cartridge system
NEW ADHESIVE

* Concluded from in vitro studies which showed that the smooth silicone surface prevented Candida albicans growth.



DIAGNOSE
TREAT
PROTECT
HEAL

SOOOO MIGHTY
WITH **QuickSplint®**

QuickSplint® Overnight Oral Appliance

QuickSplint® is a custom-fit interim dental splint that can be quickly fabricated in dental practices using VPS impression materials (like our Panasil® Putty or Futar®). It is the only dental splint designed specifically for short-term use (days to weeks) until a patient's condition is resolved or a full arch splint is provided. QuickSplint® is designed to relax craniofacial muscles, disclude posterior teeth and seat the condyles.



Indication

- QuickSplint® has numerous practical applications, empowering dentists to provide patients with immediate solutions for protection and pain relief, including:
- Anterior bite-plane and Deprogrammer for centric relation determination.
- Transitional oral appliance for trial use or emergency applications.
- Post-op protection for anterior provisional veneers and other dental restorations, newly placed dental implants, and periodontal surgery.
- Post-op healing aid for long dental procedures, to help jaw muscles relax and recover to normal function.
- Diagnostic aid for bruxism, myofascial versus odontogenic pain, and temporomandibular disorders (TMDs.)
- Same-day treatment for jaw and muscle sprain/strain (JAMSS) injuries.



Benefits

- Designed for immediate, short-term use**
Unlike anterior bite plane (ABP) devices that are custom-made by labs and clinicians, QuickSplint® is suitable for immediate use and is designed as a transitional, short-term device. QuickSplint® saves time and money and can be made chairside by auxiliary staff.
- Minimize post-op complications**
Provide QuickSplint® the day of dental procedures to inhibit overnight parafunctional clenching and prevent possible complications from microtrauma and jaw sprain/strain.
- Restorative case planning aid**
Simplify deprogramming for centric bite records, diagnose parafunction and engage your patient in the conversation about the possible impact on the restorative case. Protect temporaries and new restorations.
- Diagnose and Treat TMD**
Provide same-day relief for jaw pain or headache while you determine a definitive care plan. Use QuickSplint® in your differential diagnosis of sprain/strain or other conditions of the jaw, joints, and muscles. QuickSplint® helps you determine whether oral appliance therapy is beneficial and tolerated. Your patient will notice the difference on night one of use!



AIRWAY METRICS

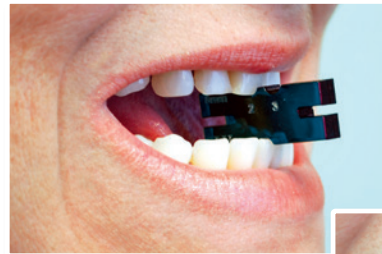
Airway Metrics – used in Oral Appliance Therapy (OAT).

Airway Metrics is a system used to obtain an optimum treatment position for oral appliance therapy. Allows doctors to quickly and easily determine an initial treatment position. The AWM System is designed specifically for Dental Sleep Medicine and has multiple horizontal and vertical positions.

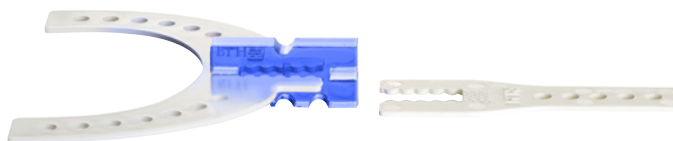


Professional System

- Three component system with all necessary ingredients
- Helps to identify the optimum protrusive and vertical placement of the mandible
- Easy and quick anatomical positioning procedure
- Vertical Positions of 4, 6, 8, 10 and 12 mm



Product	REF	piece pack
Snore Screener / Mandibular Positioning Simulator System Blue	REF 65100	16 piece pack
Snore Screener / Mandibular Positioning Simulator System Amber	REF 65101	16 piece pack
Snore Screener / Mandibular Positioning Simulator System Black	REF 65102	16 piece pack
Bite Fork Pack & Handles	REF 65103	24 piece pack (23 regular, 1 wide, 4 handles)
Scanning Bite Fork Pack & Handles	REF 65104	15 piece pack (Includes 4 handles)
Vertical Titration Key Blue	REF 65105	9 piece pack
Vertical Titration Key Amber	REF 65106	9 piece pack
Vertical Titration Key Black	REF 65107	9 piece pack



**BITE FORK
& HANDLE**

ASSORTMENT

Application tips,
black



100 tips REF 15050

Mixing tips
yellow, short,
Ø 4.2 mm



50 tips REF 17230

Intraoral tips
yellow, short,
Ø 0.6 mm



50 tips REF 17225

Mixing tips
brown,
Ø 2.5 mm



50 tips REF 17232

Mixing tips
blue-orange,
Ø 3.2 mm



50 tips REF 13789

1 x 4 g syringe/
1 x 1.8 g syringe/
15 x 0.25 g caps

Syringe
1 x 4 g syringe



Syringe
1 x 1.8 g syringe ,
5 application tips



Caps
15 x 0.25 g caps



Visalys® Fill A1	REF 15002	—	REF 15012
Visalys® Fill A2	REF 15003	—	REF 15013
Visalys® Fill A3	REF 15004	—	REF 15014
Visalys® Fill A3.5	REF 15005	—	REF 15015
Visalys® Fill A4	REF 15006	—	REF 15016
Visalys® Fill OA2	REF 15007	—	REF 15017
Visalys® Fill BL	REF 15008	—	REF 15018
Visalys® Flow A1	—	REF 15030	—
Visalys® Flow A2	—	REF 15031	—
Visalys® Flow A3	—	REF 15032	—
Visalys® Flow A3.5	—	REF 15033	—
Visalys® Flow A4	—	REF 15034	—
Visalys® Flow OA2	—	REF 15035	—
Visalys® Flow BL	—	REF 15036	—

4 g (2.5 mL) / 9 g (5 mL)



Normal pack
2 x 9 g (5 mL) automix syringe,
20 brown mixing tips,
10 intraoral tips, 10 endo tips

Normal pack
45 g (25 mL) cartridge,
20 yellow mixing tips,
20 intraoral tips

Visalys® Core, White	REF 13860	REF 13870
Visalys® Core, Dentin	REF 13861	REF 13871

50 mL cartridge 1:10



Normal pack: 50 mL cartridge,
15 blue-orange mixing tips,

Visalys® Temp, shade A1	REF 13780
Visalys® Temp, shade A2	REF 13781
Visalys® Temp, shade A3	REF 13782
Visalys® Temp, shade A3.5	REF 13790
Visalys® Temp, shade B1	REF 13784
Visalys® Temp, shade BL	REF 13788

ASSORTMENT

Mixing tips
blue,
Ø 2.5 mm



50 tips, tapered REF 17236
50 tips, blunt REF 17238

Intraoral tips
transparent,
Ø 0.6 mm



100 tips REF 17259

Endo tips
transparent,
Ø 0.9 mm



50 tips REF 17224

Intraoral tips
transparent,
Ø 1.2 mm



50 tips REF 17223

4.5 g (2.5 mL) / 9 g (5 mL)
automix syringe 1:1





Starter pack
4.5 g (2.5 mL) automix syringe,
1 x 2 mL Tooth Primer,
1 x 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 tips each, 6 intraoral tips,
4 endo tips

Visalys® CemCore
Try In Paste
(1.4 mL) syringe,
5 application tips

Visalys® CemCore, Universal (A2/A3)	REF 13570	REF 13572	REF 13592
Visalys® CemCore, Opaque	–	REF 13573	REF 13593
Visalys® CemCore, Translucent	–	REF 13574	REF 13590
Visalys® CemCore, Bleach	–	REF 13575	REF 13591
Visalys® CemCore, Dark (A4)	–	REF 13576	REF 13594

0.5 mL blister	Normal pack 50 x 0.5 mL each	Combi pack 10 x 0.5 mL Mint, 10 x 0.5 mL Berry, 10 x 0.5 mL Unflavored	Bulk pack 300 x 0.5 mL each	Superbulk pack 1000 x 0.5 mL each
				
Profisil® Fluoride Varnish Mint	REF 14802	–	REF 14807	REF 14810
Profisil® Fluoride Varnish Berry	REF 14804	–	REF 14808	REF 14811
Profisil® Fluoride Varnish Unflavored	REF 14806	–	REF 14809	REF 14812
Profisil® Fluoride Varnish mixed	–	REF 14801	–	–

4-mL-bottle	Visalys® Tooth Primer	Visalys® Restorative Primer
		
1 x 4-mL-bottle	REF 13580	REF 13581

10-mL-bottle	
	
Identium® Adhesive	REF 14204
Panasil® Adhesive	REF 14101
Mucopren® Adhesive	REF 14203
Universal Adhesive	REF 14206

ASSORTMENT

Dynamic mixers blue



45 tips REF 17900

Dynamic mixers white



45 tips REF 17902



Mixing tips red,
Ø 4.0 mm



50 tips REF 17249
100 tips REF 17250

Intraoral tips transparent,
Ø 0.6 mm



100 tips REF 17259

Mixing tips blue,
Ø 6.0 mm



50 tips REF 17244
100 tips REF 17246

Intraoral tips white,
Ø 1.0 mm



100 tips REF 17260

380 mL cartridge 5:1



Refill pack (2 x 380 mL)

Silginat®	REF 14713
Silginat® Strawberry	REF 14715
VSXE® One	REF 14733
Identium® Medium / Identium® Medium Fast	REF 14717 / REF 14719
Identium® Heavy / Identium® Heavy Fast	REF 14725 / REF 14727
Panasil® monophase Medium	REF 14709
Panasil® binetics Putty Fast	REF 14701
Panasil® binetics Putty Soft	REF 14703
Panasil® tray Fast Heavy	REF 14705
Panasil® tray Soft Heavy	REF 14707

450 mL jar 1:1



Normal pack (900 mL)
2 x 450 mL jar 1:1

Panasil® Putty	REF 11101
Panasil® Putty Fast Set	REF 11141
Panasil® Putty Soft	REF 11121

2 x 5 kg jar 1:1



Economy pack (10 kg) 2 x 5 kg jar 1:1

Panasil® Lab Putty	REF 11153
Panasil® Lab Putty Soft	REF 11155

50 mL cartridge 1:1



Normal pack
(2 x 50 mL)

Bulk pack
(24 x 50 mL)

Panasil® monophase Medium	REF 1350111	—
Panasil® tray Soft Heavy Fast	REF 1356111	—
Panasil® tray Fast Heavy	REF 1355111	—
Panasil® tray Soft Heavy	REF 1354111	—
Panasil® initial contact X-Light / - Fast	REF 1340111 / REF 1346111	—
Panasil® initial contact Light / - Fast	REF 1341111 / REF 1347111	—
Panasil® initial contact Regular	REF 1343111	—
Silginat®	REF 1384611 (6 x 50 mL)	REF 1384711
Silginat® Strawberry	REF 1382611 (6 x 50 mL)	REF 1382711
Identium® Light / Identium® Light Fast	REF 1370111 / REF 1371111	—
Futar® / Futar® Fast	REF 1191211 / REF 1192611	—
Futar® Easy / Futar® Easy Fast	REF 1192311 / REF 1192411	—
Futar® D / Futar® D Fast	REF 1193211 / REF 1196111	—
Futar® D Slow	REF 1195111	—
Futar® Clear Fast	REF 1192811	—

Electrical dosing and mixing device



Sympress dispenser





REF 35911

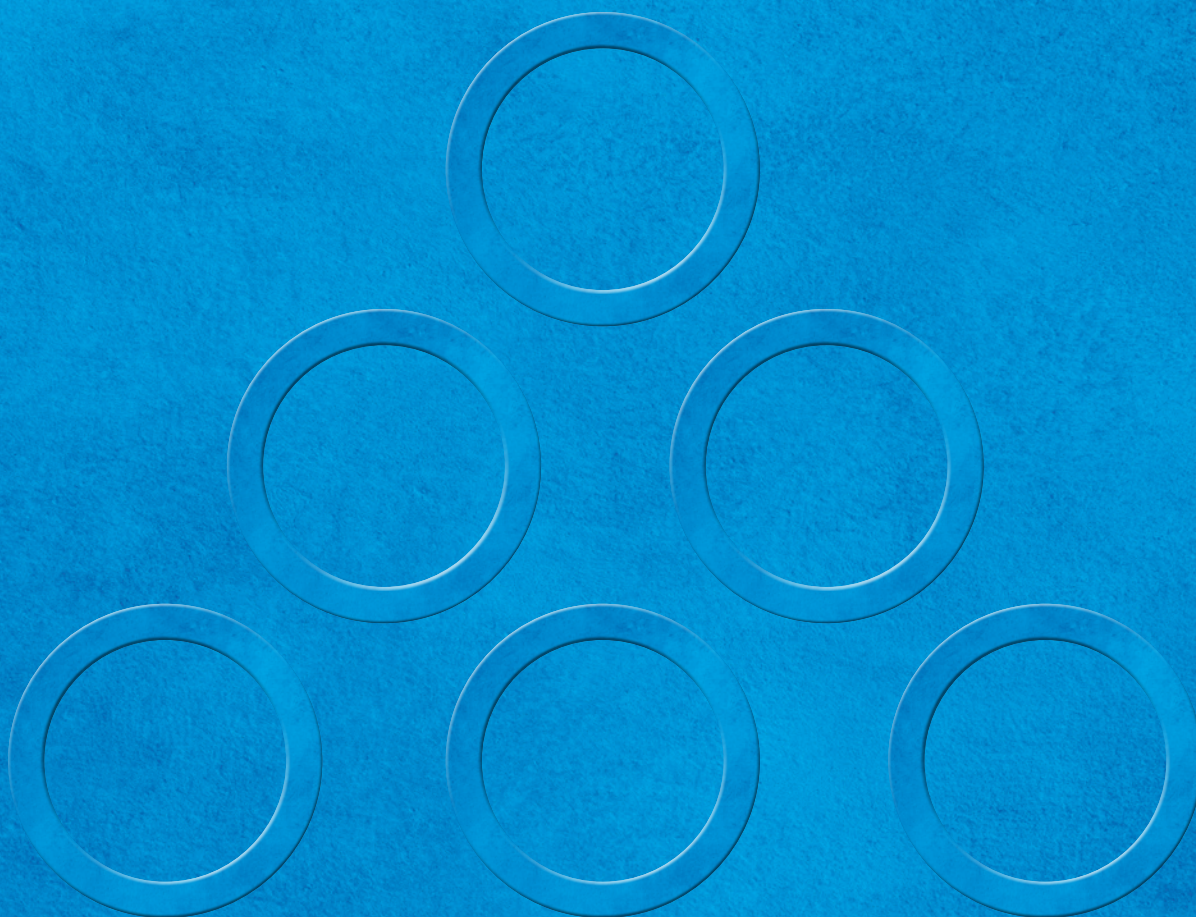
ASSORTMENT

Syringe tips
for Applyfix 5



50 tips REF 17207

Dispensing gun		
Applyfix 4		REF 17203 (for 50 mL cartridges 1:1/2:1)
Applyfix 5		REF 17204 (2 application syringes made of plastic, 12 syringe tips + accessories)
Applyfix 6		REF 17208 (for 50 mL cartridges 4:1/10:1)
Applyfix 8		REF 17212 (for 25 mL cartridges 1:1/2:1)
50 mL cartridge 1:1		Normal pack (2 x 50 mL)
Mucopren® Soft		REF 15687
Mucopren® Soft Basic set		REF 28105 50 mL Mucopren Soft, 50 mL Mucopren silicone sealant, 10 mL Mucopren adhesive, 6 blue mixing tips (Ø 6.0 mm), 16 red mixing tips (Ø 4.0 mm), 1 brush holder, 20 single-use brushes, 1 steel bur, accessories
Mucopren® silicone sealant		REF 15686 1 x 50 mL Mucopren® silicone sealant, 8 red mixing tips (Ø 4.0 mm)
QuickSplint® units in single patient take-home containers		QuickSplint®-12-pack (12 Pack QuickSplint® units)
QuickSplint®		REF 90100
		QuickSplint-Bulk-pack-100 (100 Pack QuickSplint® units)
		REF 90230



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