

Heraeus Kulzer

Mitsui Chemicals Group

Variotime®

Variotime®
Freedom to impress.



Giving a hand to oral health.

With **Variotime®** your freedom is ready to hand.

Variotime® fits your personal style.

You never linked impressions with freedom? You will now. Variotime comes with a variable time concept which provides more leeway with starting the setting time. It thereby allows greater handling freedom. This means less stress for you – and puts your patients more at ease, as well.

Ease also comes with trusting the material attributes. You place high demands on the quality, consistency and physical as well as handling properties of your impression material. You also need process-oriented adaptability for a wide range of indications. It's what you get with our innovative A-silicone. On top of the variable time slot.

We want you to experience the splendid feeling of freedom and reliability.



Think vario – Freedom can be this simple.

Variotime®

Win a free hand in precision impressions.

Benefit from straightforward, adaptable handling:

- Mixed automatically, using the Dynamix speed System.
- One material with variable applications – for single crowns as well as multi-unit prosthetic restorations.
- Variable working time, ranging from 1:00–2:30 minutes.
- Short intraoral setting time of 2:30 minutes.
- Convenient, time-saving working.

Gain more leeway with starting the setting time

	Variable Working Time As little as 1:00 min or up to 2:30 min!	Short Intraoral Setting Time Always 2:30 min!
Multiple-Unit Impression	2:30	2:30
Single-Unit Impression	1:00	2:30

- ▶ Variotime controls the polymerisation kinetics by mouth temperature and sets rapidly after insertion into the mouth.



Variotime® – Certainty leads to freedom.

Variotime® performs splendidly in the wet sulcus.

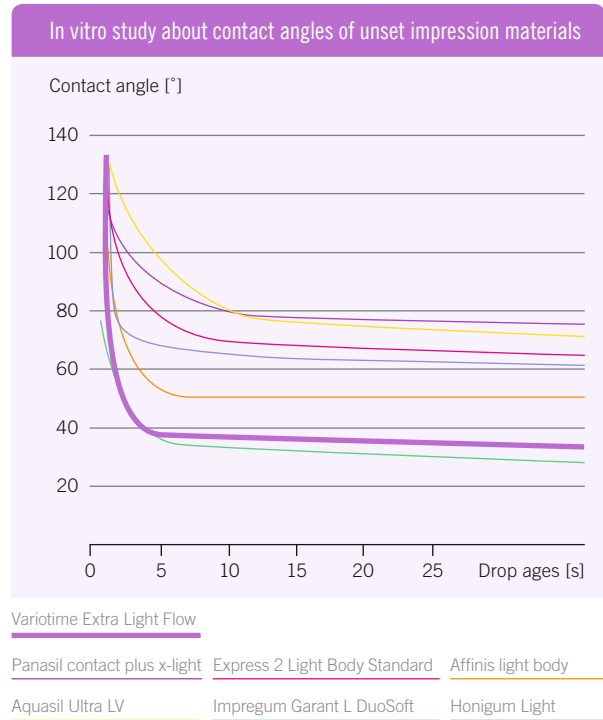
Enjoy its precision of fit – It's your advantage:

- Low dimensional changes (–0.001%) ensure most exact dimensional accuracy*.
- Reproduces surface roughness details of under 20 µm**.
- Convincing hydrophilic properties for a high reproduction of details.

* Source: Piwowarczyk, A. *et al.*, In Vitro Study on the Dimensional Accuracy of Selected Materials for Monophase Elastic Impression-Making, *Int J Prosthodont* 2002; 15: 168–174. The material tested in this study is equal to the product Variotime Monophase.

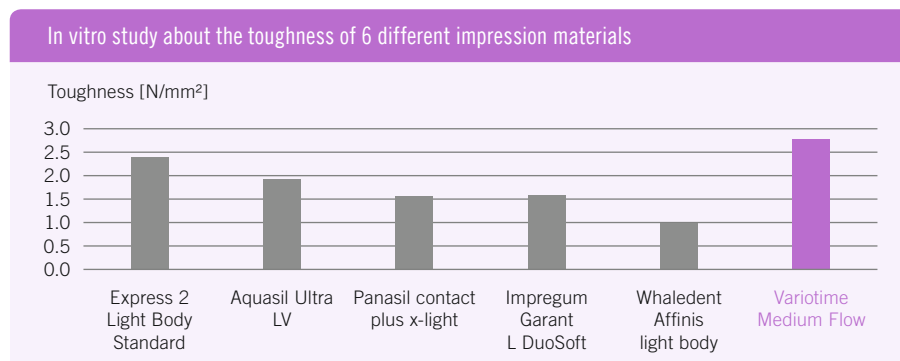
** Source: Kanehira, M. *et al.*, Surface detail reproduction with new elastomeric dental impression materials. *Quintessence Int* 2007; 38: 479–488.

- ▶ The contact angles of a water drop on Variotime Extra Light Flow – a measurement for hydrophilicity – are on the polyether level and allow Variotime's excellent performance in the wet sulcus.



Source: Geis-Gerstorfer, J., Hochaufgelöste Kontaktwinkel-Messungen, University of Tübingen, Germany, May 2009, data on file.

Variotime's strengths are scientifically confirmed



Source: Thermoplastic Testing Centre, Bayer Material Science AG, Krefeld-Uerdingen, Germany, March 2009, data on file.
























- ▶ In this study, Variotime Medium Flow exhibited the highest toughness which enables the prevention of tearing of flashes and distortion upon removal.

The all-rounder among A-silicones.

Variotime®

Variotime® is the right choice for numerous occasions.

The Variotime assortment is a well-thought-out, coordinated all-round system for all impression techniques. Apart from being beneficial to your time line.

Indication	Technique	Viscosity of tray material	Product recommendation
Crowns/Bridges	Two-Step Impression	High viscous	 Step 1 Heavy Tray  Step 2 Extra Light Flow
		Kneadable, high viscous	 Step 1 Heavy Tray  Step 2 Extra Light Flow
	Double-Mix Impression	High viscous	 Heavy Tray +  Medium Flow/  Light Flow
	Sandwich Impression	Kneadable, high viscous	 Putty +  Medium Flow/  Light Flow
	Monophase Impression	Medium viscous	 Monophase
Functional Impressions	Monophase Impression	Medium viscous	 Monophase
Inlays/Onlays	Double-Mix Impression	High viscous	 Heavy Tray +  Medium Flow/  Light Flow
	Sandwich Impression	Kneadable, high viscous	 Putty +  Medium Flow/  Light Flow
	Monophase Impression	Medium viscous	 Monophase
Transfer/Implant Impressions	Double-Mix Impression	High viscous	 Putty+  Medium Flow/  Light Flow
	Monophase Impression	Medium viscous	 Monophase

The Dynamix® speed System – High-speed precision in no time.

Go double speed.

You set the pace in taking impressions, we just provide the opportunities for efficiency and time saving.

Practical cartridges and the functional Dynamix speed mixer are perfectly matched in this well-thought-out system featuring all the advantages of automatic mixing for impression materials, above all even more time savings due to high speed, simple handling and a consistent, void-free mixture. Together with the consistency of the material, this is the foundation for precise results.

Benefit from easy, reliable and efficient handling:

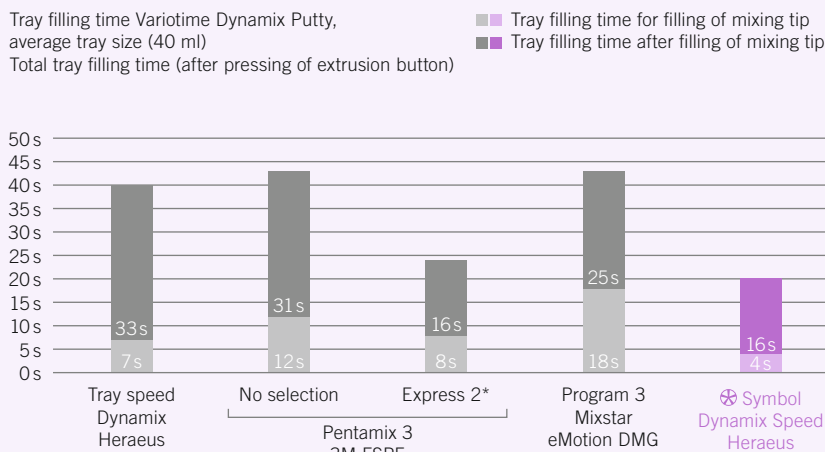
- High-speed mixing and precise dispensing, also for Putty viscosities.
- Savings in time and materials.
- 3 selectable velocities – including a new high-speed option.
- Automatic propulsion and reverse drive of plungers at the press of a button.
- Clearly marked functional elements.
- Cartridges marked with Dynamix speed symbol.

Rely on quality and precision – again and again:

- Homogeneously and void-free mixed impression materials leading to precisely fitting prosthetic restorations.
- Reproducible material properties.
- Consistent quality of mix, independent of operator, for consistent precision of fit.

Dynamix speed is twice as fast as before, even with putty material!

Tray filling time Variotime Dynamix Putty, average tray size (40 ml)
Total tray filling time (after pressing of extrusion button)



* Pentamix 3 offers the fast extrusion speed exclusively for 3M ESPE products, therefore tested with Express 2.

Source: Heraeus Research & Development, data on file.



Variotime® / Dynamix® System – Product range.

Variotime®

Dynamix Cartridge Refills

Variotime Dynamix Putty Refill

3 x (2 x 380 ml) Dynamix Putty
3 x 2 Dynamix Mixing Tips
3 x 1 Dynamix Fixation Ring
Art.-No.: 66044995

Variotime Dynamix Heavy Tray Refill

3 x (2 x 380 ml) Dynamix Heavy Tray
3 x 2 Dynamix Mixing Tips
3 x 1 Dynamix Fixation Ring
Art.-No.: 66045000

Variotime Dynamix Monophase Refill

3 x (2 x 380 ml) Dynamix Monophase
3 x 2 Dynamix Mixing Tips
3 x 1 Dynamix Fixation Ring
Art.-No.: 66045034

50 ml Automix Cartridge Refills

Variotime Heavy Tray Refill

6 x (2 x 50 ml) Heavy Tray
6 x 5 Mixing Tips green
Art.-No.: 66044998

Variotime Monophase Refill

6 x (2 x 50 ml) Monophase
6 x 5 Mixing Tips green
Art.-No.: 66045032

Variotime Medium Flow Refill

6 x (2 x 50 ml) Medium Flow
6 x 10 Mixing Tips yellow
Art.-No.: 66045036

Variotime Light Flow Refill

6 x (2 x 50 ml) Light Flow
6 x 10 Mixing Tips yellow
Art.-No.: 66045038

Variotime Extra Light Flow Refill

6 x (2 x 50 ml) Extra Light Flow
6 x 10 Mixing Tips yellow
Art.-No.: 66045040

Variotime Bite Cartridge Refill

3 x (2 x 50 ml) Variotime Bite
3 x 10 Mixing Tips green
Art.-No.: 66045042

Handmix Trial Kit

Variotime Easy Putty + Flow Trial Kit

1 x 600 ml Easy Putty (each 300 ml Base & Cat.)
1 x 50 ml Light Flow
5 x Mixing Tips yellow
5 x Intraoral Tips
1 x Universal Adhesive (10 ml)
Art.-No.: 66045044

Handmix Refill

Variotime Easy Putty Refill

4 x 600 ml Easy Putty (each 4 x 300 ml Base & Cat.)
Art.-No.: 66044993



Variotime® Bite – Freedom to impress.

Benefit from exceptional accuracy for universal bite registration.

The bite registration is a vital step in the preparation of indirect restorations. You need to rely on it whenever you need it. And you wouldn't want to compromise on the quality of the material just now. Precision of fit is what you are accustomed to from our Variotime precision impression material. And with Variotime Bite you can count on precision of fit in the field of bite registration as well. Variotime Bite delivers exceptional accuracy for universal bite registrations and superior powder-free scannability for use with CAD/CAM technology.

- Extra-high final hardness of Shore D 40.
- Extremely fast intraoral setting time of only 30 seconds.
- Distinct thixotrophy and whipped-cream-like consistency.
- Easy to trim and grind with minimal risk of fracture.



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