

hydrorise system



SIMPLY ACCURATE

Addition silicones for impression taking



hydrorise system

SIMPLY ACCURATE

Hydrorise Implant and Hydrorise, two key components of Hydrorise System. With one single objective: accuracy.

A SYSTEM THAT STANDS OUT FOR ACCURACY AND RELIABILITY

Hydrorise System is a complete range of addition silicones for impression taking, formulated for professionals seeking high performance solutions. Hydrorise System is the **top of the** Zhermack range and guarantees **accuracy** and **reliability**.

TWO KEY COMPONENTS. ONE RANGE.

Hydrorise System delivers the precision and accuracy that the professional needs, for impressions of implants and of natural abutments. **Hydrorise Implant** is scannable, radiopaque* and has high rigidity for implant impression taking. **Hydrorise** also guarantees fine detail reproduction which, combined with excellent hydrocompatibility, contributes to the precision and accuracy of natural abutment impressions.

THE FULL RANGE Zhermack product choice guide

HIGH-TECH,
HIGH-PERFORMANCE
SOLUTIONS

extraPro

Hydrorise System

SOLUTIONS
FOR SPECIFIC
APPLICATIONS

specialPro

VERSATILE
SOLUTIONS

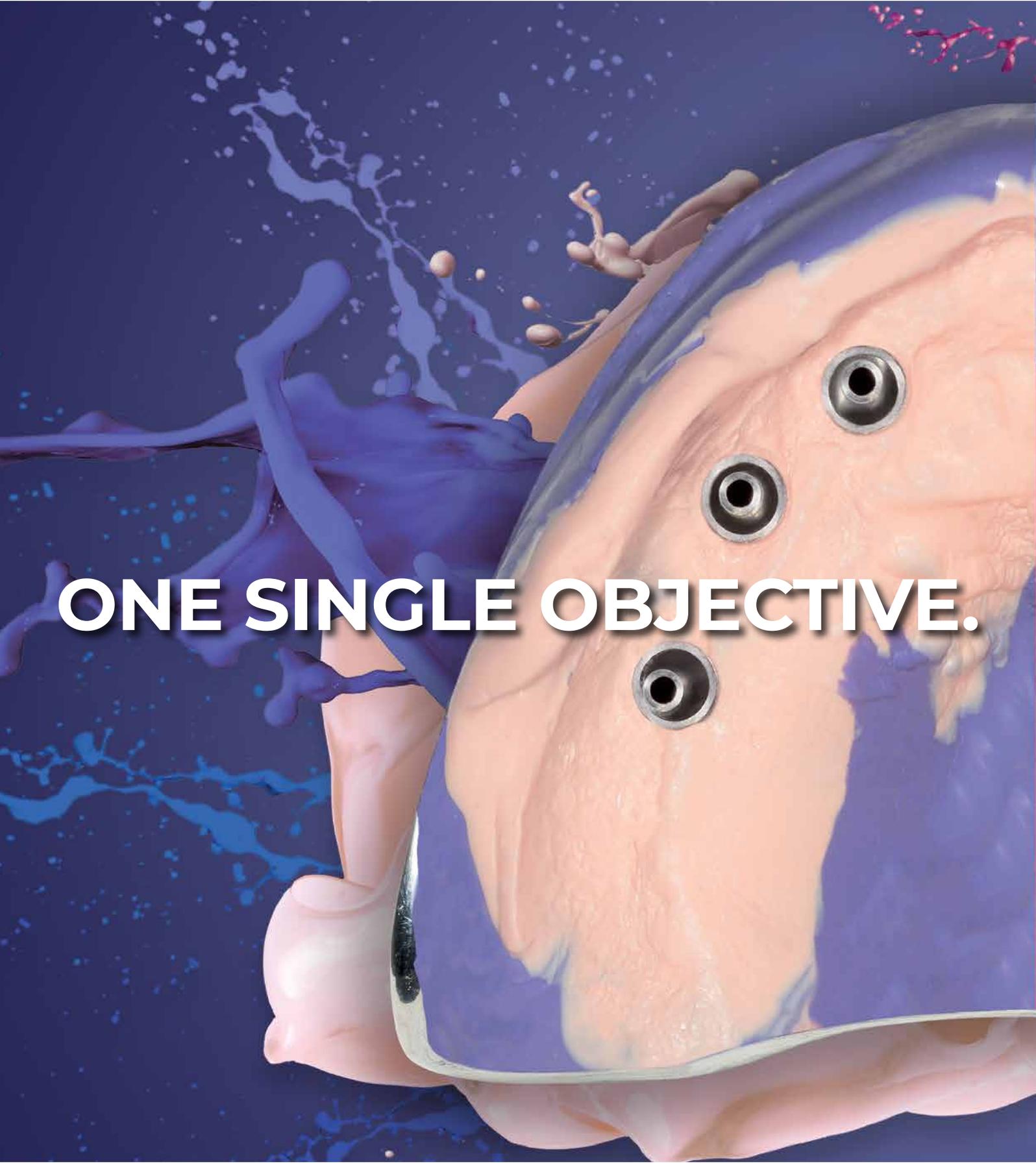
multiPro

ESSENTIAL
SOLUTIONS

easyPro

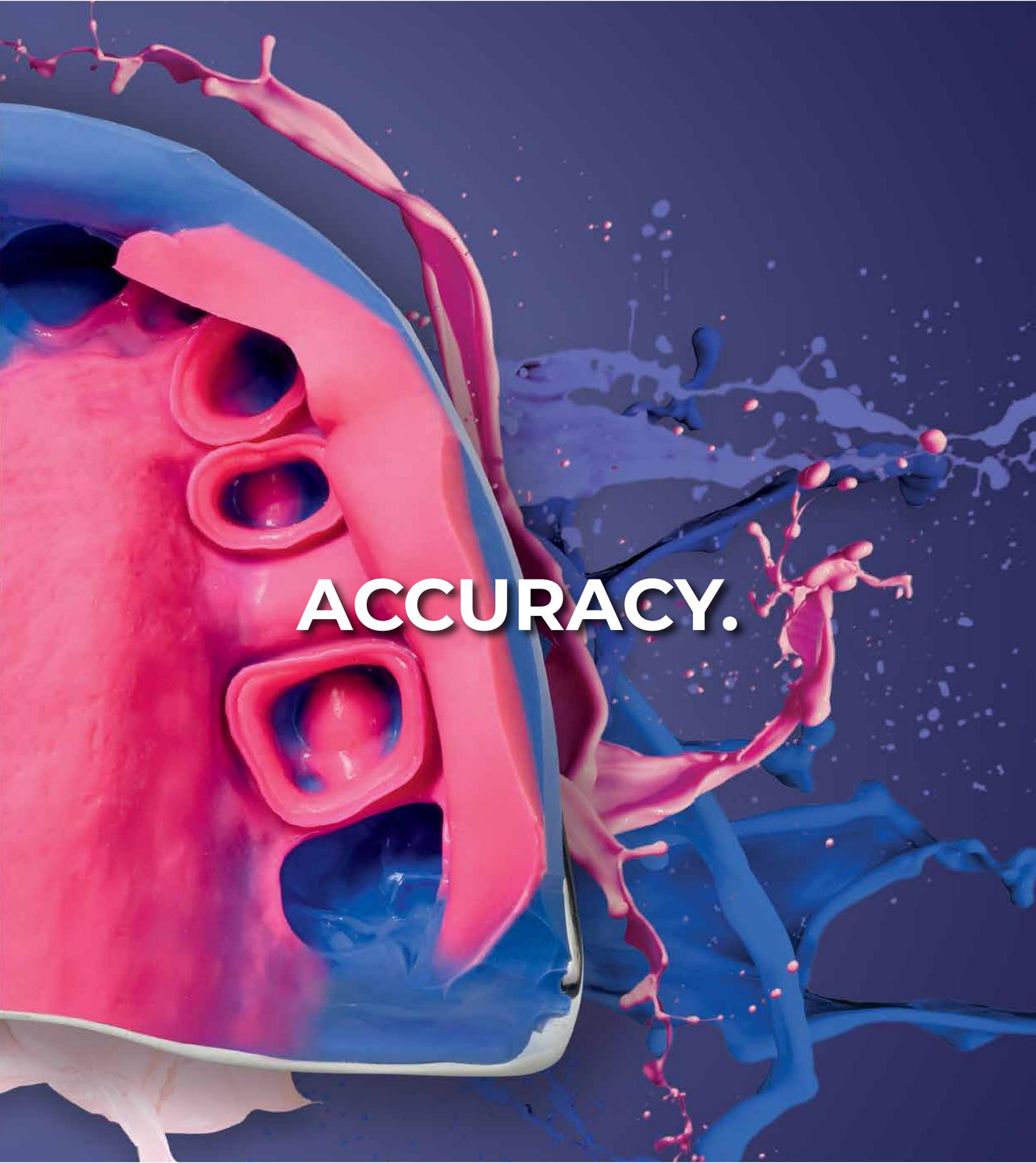
* Tests conducted by 3D Fast, 2016

hydrorise implant



ONE SINGLE OBJECTIVE.

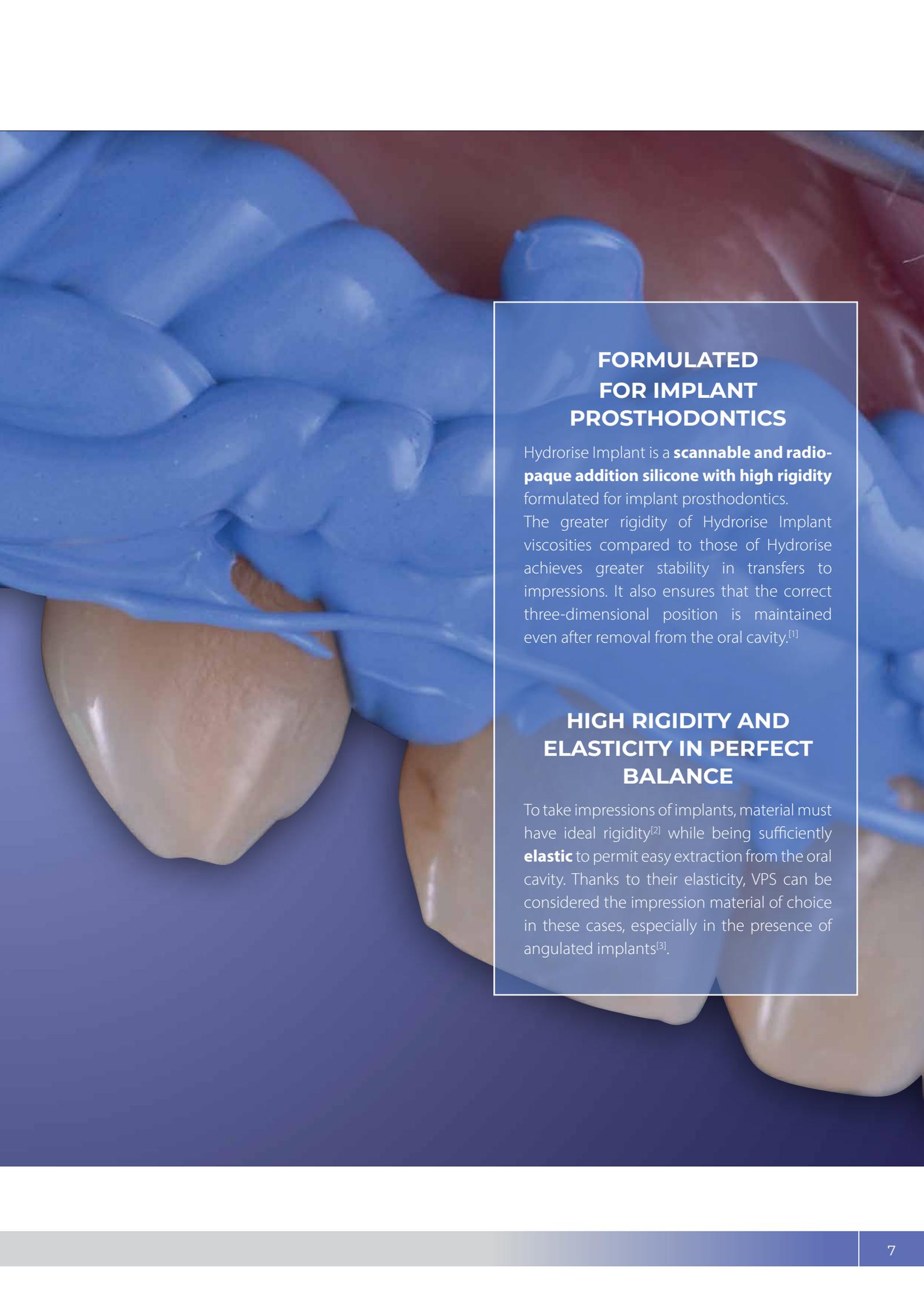
hydrorise



ACCURACY.

A close-up photograph of a dental handpiece, which is a metal tool used for drilling or grinding teeth. The handpiece is held by a hand wearing a blue nitrile glove. The handpiece is positioned over a dental model, which is a replica of a patient's teeth. The background is a dark blue gradient. The text is overlaid on the lower left portion of the image.

WITH **HYDRORISE IMPLANT**
IMPRESSIONS ARE RIGHT
FIRST TIME.



FORMULATED FOR IMPLANT PROSTHODONTICS

Hydrorise Implant is a **scannable and radio-paque addition silicone with high rigidity** formulated for implant prosthodontics.

The greater rigidity of Hydrorise Implant viscosities compared to those of Hydrorise achieves greater stability in transfers to impressions. It also ensures that the correct three-dimensional position is maintained even after removal from the oral cavity.^[1]

HIGH RIGIDITY AND ELASTICITY IN PERFECT BALANCE

To take impressions of implants, material must have ideal rigidity^[2] while being sufficiently **elastic** to permit easy extraction from the oral cavity. Thanks to their elasticity, VPS can be considered the impression material of choice in these cases, especially in the presence of angulated implants^[3].

Hydrorise Implant

FOCUS

TESTED RELIABILITY

Hydrorise Implant meets all the technical and clinical requirements in implant prosthodontics.

An in vitro study conducted at the **Universities of Bologna and Padua** showed that Hydrorise Implant has significantly **better accuracy** than polyethers. Even in unfavourable conditions of non-splinted transfers, the performance of Hydrorise Implant was the same as or better than that of polyethers.^[1]





SCANNABILITY

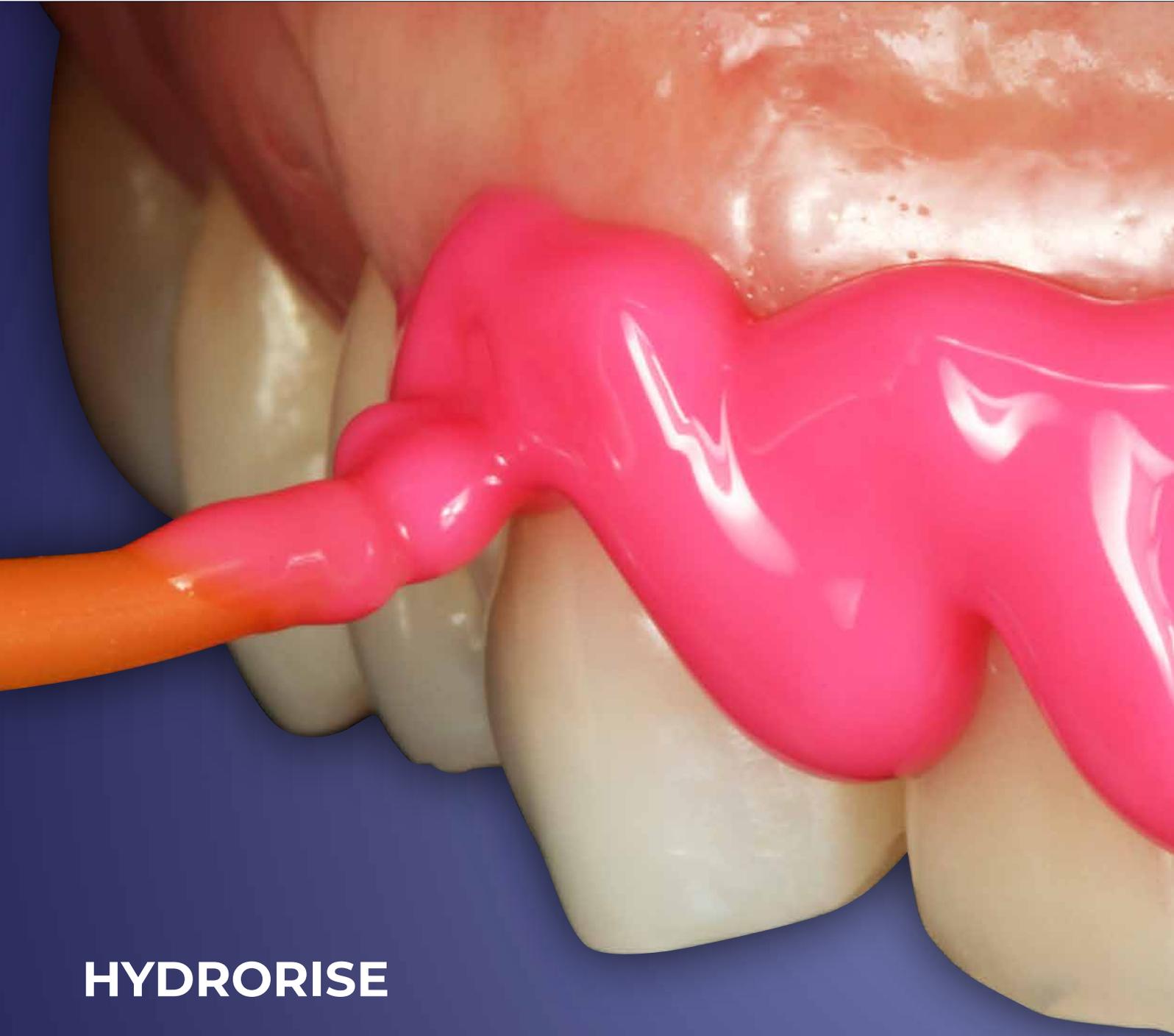
Hydrorise Implant combines high-performance technical properties with the benefits of digital workflows. Thanks to its unique formula, Hydrorise Implant **is scannable** even without reflective sprays. The scannability of impressions **facilitates access to digital workflows**. It also reduces the risk of errors caused by the casting of traditional gypsum models.

RADIOPACITY: A HYDRORISE IMPLANT EXCLUSIVE*

Radiopacity allows any subgingival material residues to be identified with a plain-film X-ray performed in the dental practice, thus affording the professional peace of mind and ensuring patient safety. Furthermore, the dentist can use a CT scan to display the profile of the soft tissues of an edentulous patient, positioning the material as a liner or reliner underneath the patient's own dentures.^[4]



* Within the Zhermack product portfolio



HYDRORISE

WHAT IS PRECISION
MADE OF?



DETAILS MAKE THE DIFFERENCE

Hydrorise addition silicone guarantees **excellent detail reproduction.**

Adequate detail reproduction is one of the main requirements for a successful impression.^[4] Zhermack has developed a product that goes well beyond **applicable standards** with **precision 4 times greater** than that demanded by European standards.*

Hydrorise fluids offer a precision of **5 microns**, ensuring excellent detail reproduction.

Hydrorise

HYDROPHILICITY

Hydrophilicity is another essential characteristic for an impression material as it makes a decisive contribution to the accurate reproduction of detail. The more hydrophilic a material is, the better able it is to flow into humid areas and copy surfaces accurately, with less risk of bubbles becoming incorporated.^[5,6]

TALKING ABOUT HYDROPHILICITY

Not all impression materials behave in the same way in terms of hydrophilicity.

Studies published in clinical literature have shown that the high hydrophilicity of certain materials can result in the absorption of water and compromise dimensional accuracy.^[7]

On the other hand, the hydrophobic nature of silicones does not result in any behaviour that is potentially detrimental to the accuracy of the prosthetic process. At the same time, the addition of surfactants to the formula also allows them to flow readily in wet environments.





HYDROCOMPATIBILITY. MORE THAN HYDROPHILICITY.

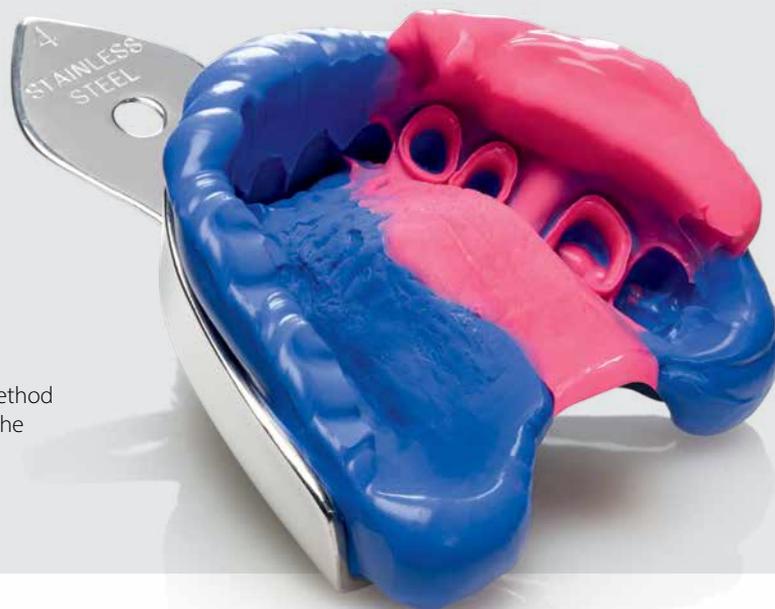
Zhermack has redesigned the concept of hydrophilia, taking it to a higher level.

Zhermack has, in fact, **defined the affinity for fluids of its silicones as "hydrocompatibility"**.

In contrast with other materials present on the market, Zhermack silicones - despite being hydrophobic by nature - have a low angle of contact, which **ensures high performance in humid environments** and maintains dimensional stability.

A CHOICE OF QUALITY

Hydrorise has been shown to have one **of the best angles of contact** on the market.* Its **excellent hydrocompatibility** helps obtain **accurate impressions**.



* In-house data. Tests conducted using the sessile drop method performed with Kruss DSA30, sample size no. 17; request the data at info@zhermack.com

Hydrorise System

Everything contributes to accuracy.
What more could you want?



ALMOST 100% ELASTIC RECOVERY

Good elastic recovery is a fundamental characteristic for mixed impressions and those of natural abutments.^[4] Hydrorise System products boast an **excellent elastic recovery of 99,5 %.***

Material is therefore able to return to its original shape after the deformation caused by removing the impression from the oral cavity, contributing further to the accuracy of the impression.

TEAR RESISTANCE

The tear resistance of the Hydrorise System viscosities** contributes to the dentist's comfort, because it reduces the risk of tears during removal of the impression from the mouth.

ACCURATE EVEN DAYS LATER

With Hydrorise System, impressions do not need to be cast immediately to make a plaster cast: the dentist and dental technician therefore enjoy greater flexibility in impression management.

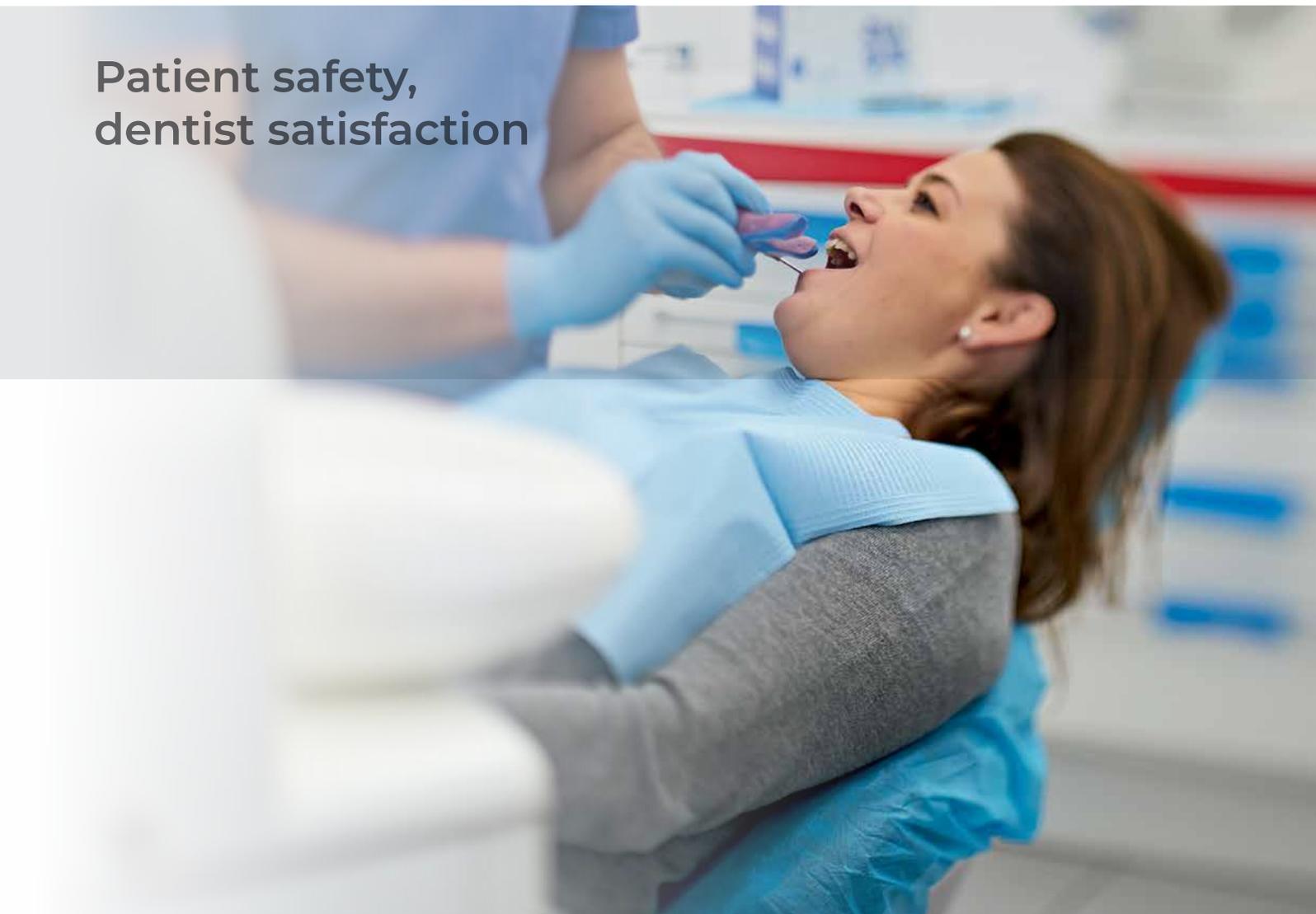
The **dimensional stability** of Hydrorise System helps maintain the accuracy of impressions **for up to 21 days.***



* According to ISO 4823

** According to standard ASTM D624

Patient safety, dentist satisfaction



Safe for use even on intolerant patients.

All Zhermack addition silicones **are gluten- and lactose-free**, which guarantees peace of mind and safety even when used on intolerant patients.

This allows the dentist to perform impression procedures with peace of mind and in absolute safety.



A perfect combination

Hydrorise System and Sympress,
the ideal combination for quality mixing.

FOCUS

A RELIABLE MACHINE

Hydrorise System can be used with **Sympress**, the automatic mixer designed for quick and easy mixing of impression materials in 5:1 cartridges.

VERSATILE

- Compatible with all the most common impression materials on the market (VPS and polyethers)
- Can be used with hard and soft cartridges (360 or 380 ml)

FUNCTIONAL

- Compact design occupies less worktop space
- Silent

EASY TO USE

- Two mixing speeds
- Constant and better quality mixing than manual mixing



Quality mixing

With Zhermack, mixing becomes automatic to make your everyday work easier.

WHY PREFER AUTOMATIC MIXING?

Automatic mixing improves impression quality compared to manual mixing and produces a **more homogeneous mix**. It reduces the risk of incorrect dosing and the incorporation of air bubbles in the mix. Automatic mixing also reduces impression material preparation times, even in the hands of less expert users, which in turn saves time and affords the user greater comfort.^[8,9]

Zhermack's 5:1 system, even better performance.



Cartridges are easy to insert in the machine and come ready for use

The mixing tip locker ensures quick and secure fixing



Dynamic-static tips **reduce material waste by up to 22%** compared to the tips most commonly used by competitors on the market*.

ZHERMACK'S 380 ML
CARTRIDGES ARE
COMPATIBLE WITH MOST
COMMON MIXERS
ON THE MARKET

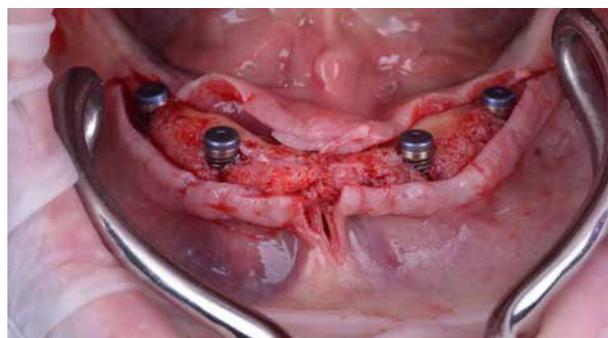
* In-house data. Test to measure the volume of the tip using distilled water, conducted on eight different tips of different brands, with test repeated three times for each one. Request the data at info@zhermack.com

Clinical case

A clinical case of the complete rehabilitation of a patient's dental arches. **Hydrorise Implant** was used for implant prosthodontic purposes in the lower arch while **Hydrorise** was used in the upper arch for the prosthodontic treatment of natural teeth.



1. Baseline



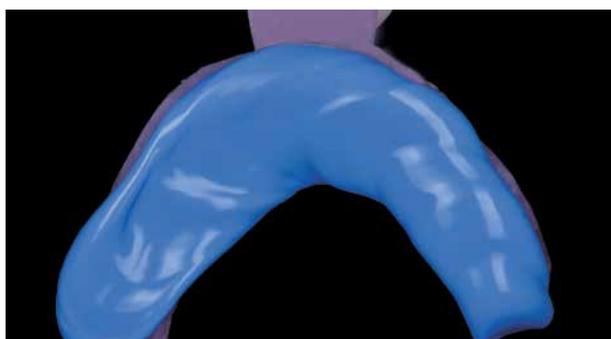
2. Implants in position



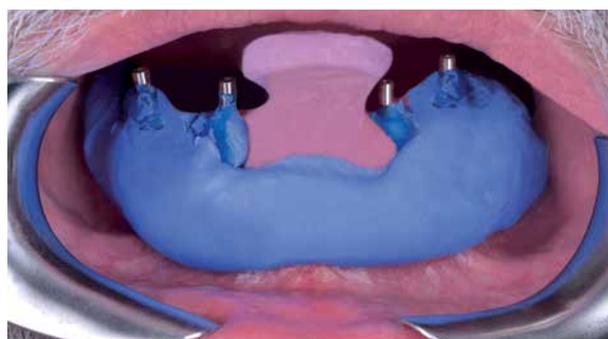
3. Pick-up in position



4. In-mouth testing of custom impression tray



5. Hydrorise Implant Medium Body on the custom impression tray



6. The Hydrorise Implant Medium Body impression in the patient's mouth



7. The Hydrorise Implant Medium Body impression



8. Preparation of the upper arch teeth



9. Insertion of the displacement cords



10. Positioning Hydrorise Light Body on the upper arch abutments



11. Upper arch impression of natural abutments taken with Hydrorise Heavy Body and Light Body



12. The patient's smile at the end of the treatment

technical data



HYDRORISE SYSTEM	Delivery System	Type of setting	Working time, including mixing time* (min:s)	Time in mouth (min:s)	Setting time* (min:s)	Hardness Shore A
Hydrorise Putty	Manual mixing	Normal Set	2:00	3:30	5:30	60
		Fast Set	1:30	2:30	4:00	
Hydrorise Maxi Putty	5:1 automatic mixing	Normal Set	2:00	3:30	5:30	60
		Fast Set	1:30	2:30	4:00	
Hydrorise Implant Heavy	5:1 automatic mixing	Normal Set	2:00	3:30	5:30	65
Hydrorise Maxi Heavy	5:1 automatic mixing	Normal Set	2:00	3:30	5:30	60
		Fast Set	1:30	2:30	4:00	
Hydrorise Implant Medium	5:1 automatic mixing	Normal Set	2:00	3:30	5:30	60
		Quick Set	1:30	2:00	3:30	
Hydrorise Monophase	1:1 semi-automatic mixing	Normal Set	2:00	3:30	5:30	60
		Fast Set	1:30	2:30	4:00	
Hydrorise Maxi Monophase	5:1 automatic mixing	Normal Set	2:00	3:30	5:30	55
		Fast Set	1:30	2:30	4:00	
Hydrorise Regular	1:1 semi-automatic mixing	Normal Set	2:00	3:30	5:30	55
		Fast Set	1:30	2:30	4:00	
Hydrorise Implant Light	1:1 semi-automatic mixing	Normal Set	2:00	3:30	5:30	55
Hydrorise Light	1:1 semi-automatic mixing	Normal Set	2:00	3:30	5:30	40
		Fast Set	1:30	2:30	4:00	
Hydrorise Extra Light	1:1 semi-automatic mixing	Normal Set	2:00	3:30	5:30	50
		Fast Set	1:30	2:30	4:00	

*Times are intended from the beginning of mixing at 23°C (73 °F).

Find out more about Zhermack impression products



FOCUS

The disinfection of the impression is an essential step in order to limit the risk of cross-contamination between the dental practice and the dental laboratory.

All Zhermack silicones can be disinfected using products containing quaternary ammonium salts, mixtures of alcohol and surface tension reducers, such as **Zeta 7 Spray** and **Zeta 7 Solution** from Zhermack's Zeta Hygiene line, whilst maintaining their dimensional stability and surface detail reproduction even after disinfection^[10,11].



Zeta 7 Spray

Ready-to-use disinfectant spray for rapid impression disinfection.

Zeta 7 Solution

Concentrated disinfectant for impression disinfection.

Packaging



extraPro

HYDRORISE PUTTY - HIGH VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207010	Normal Set	2 x 300 ml tubs (Base + Catalyst) + 2 measuring spoons
C207011	Fast Set	
C207012	Normal Set	Eco Pack: 2 x 900 ml tubs (Base + Catalyst) + 2 measuring spoons
C207013	Fast Set	
C207071	Fast Set	Mini Kit: 2 x 100 ml tubs (Base + Catalyst) of Putty Fast + 2 measuring spoons 1 x 50 ml cartridge (Base + Catalyst) of Light Fast + 6 mixing tips (small)

HYDRORISE MAXI PUTTY - HIGH VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207044	Normal Set	2 x 380 ml cartridges (Base + Catalyst) + 15 dynamic-static mixing tips + 2 tip lockers
C207045	Fast Set	
C207065	Fast Set	Eco Pack: 6 x 380 ml cartridges (Base + Catalyst) + 2 tip lockers

HYDRORISE IMPLANT HEAVY BODY - HIGH VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207090	Normal Set	2 x 380 ml cartridges (Base + Catalyst) + 15 dynamic-static mixing tips + 2 tip lockers
C207095	Normal Set	Hydrorise Implant Kit Heavy/Light: 1 x 380 ml cartridge (Base + Catalyst) of Heavy Body + 1 x 50 ml cartridge (Base + Catalyst) of Light Body + 6 dynamic-static mixing tips + 6 mixing tips (small) + 1 tip locker

HYDRORISE MAXI HEAVY BODY - HIGH VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207042	Normal Set	2 x 380 ml cartridges (Base + Catalyst) + 15 dynamic-static mixing tips + 2 tip lockers
C207043	Fast Set	
C207063	Fast Set	Eco Pack: 6 x 380 ml cartridges (Base + Catalyst) + 2 tip lockers

HYDRORISE IMPLANT MEDIUM BODY - MEDIUM VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207092	Normal Set	2 x 380 ml cartridges (Base + Catalyst) + 15 dynamic-static mixing tips + 2 tip lockers
C207122	Quick Set	
C207096	Normal Set	1 x 380 ml cartridge (Base + Catalyst) + 6 dynamic-static mixing tips + 1 tip locker
C207126	Quick Set	

HYDRORISE MONOPHASE - MEDIUM VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207006	Normal Set	2 x 50 ml cartridges (Base + Catalyst) + 6 mixing tips (medium)
C207007	Fast Set	

HYDRORISE MAXI MONOPHASE - MEDIUM VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207040	Normal Set	2 x 380 ml cartridges (Base + Catalyst) + 15 dynamic-static mixing tips + 2 tip lockers
C207041	Fast Set	

HYDRORISE REGULAR BODY - MEDIUM VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207004	Normal Set	2 x 50 ml cartridges (Base + Catalyst) + 12 mixing tips (small)
C207005	Fast Set	

HYDRORISE IMPLANT LIGHT BODY - LOW VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207091	Normal Set	2 x 50 ml cartridges (Base + Catalyst) + 12 mixing tips (small)
C207095	Normal Set	Hydrorise Implant Kit Heavy/Light: 1 x 380 ml cartridge of Heavy Body + 1 x 50 ml cartridge of Light Body + 6 dynamic-static mixing tips + 6 mixing tips (small) + 1 tip locker

HYDRORISE LIGHT BODY - LOW VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207000	Normal Set	2 x 50 ml cartridges (Base + Catalyst) + 12 mixing tips (small)
C207001	Fast Set	
C207071	Fast Set	Mini Kit: 2 x 100 ml tubs (Base + Catalyst) of Putty Fast + 2 measuring spoons + 1 x 50 ml cartridge (Base + Catalyst) of Light Fast + 6 mixing tips (small)

HYDRORISE EXTRA LIGHT BODY - LOW VISCOSITY ADDITION SILICONE

Code	Setting time	Packaging
C207002	Normal Set	2 x 50 ml cartridges (Base + Catalyst) + 12 mixing tips (small)
C207003	Fast Set	

Equipment

Code	Model
6000-0000	Sympress – 230 V
6000-1000	Sympress – 120 V
6000-2000	Sympress 230 V UK plug



ACCESSORIES

Code	Product	Code	Product
C202085	Mixing tips - small (48 pcs)	C700025	Universal Tray Adhesive - 10 ml bottle
C202086	Mixing tips - medium (48 pcs)	C202100	D2 1:1 dispenser
D510010	Putty Cut	C205530	Dynamic-static mixing tips (50 pcs)
C202090	Yellow oral tips (48 pcs)	C205540	Tip locker (2 pcs)

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