acrytemp

AS CONFIDENT AS A NATURAL SMILE

Self-curing bis-acryl resin for short- and long-term provisional restorations

Zhermack
Dental

acrytemp

AS CONFIDENT AS A NATURAL SMILE

Reliability, safety and a good cosmetic result. To satisfy both practitioner and patient.

Temporary restorations are an important step in the rehabilitation process, and favour the success of the final restoration.

A good temporary prosthesis must satisfy a number of functional requirements: **resistance** to stress, occlusal function, **protection** of the pulp, positional stability, **aesthetics** and easy hygiene maintenance. [1-4]

During this phase the patient can request cosmetic and functional changes, and therefore it also has an important **psychological function** as it allows the patient to get used to what will be the final rehabilitation. [1]

Acrytemp is the Zhermack solution for these needs. It is a **self-curing** bis-acryl resin for short- and long-term temporary restorations with a **high failure resistance**.

The Acrytemp range comes in 50 ml 4:1 **cartridges** and includes **five different shades**, A1, A2, A3, A3.5 and B1, to meet the diverse needs of clinical practice and patients.

THE COMPLETE OFFERING
Zhermack product choice guide

HI-TECH SOLUTIONS FOR HIGH PERFORMANCE	SOLUTIONS FOR SPECIAL APPLICATIONS	**VERSATILE SOLUTIONS**	ESSENTIAL SOLUTIONS
extraPro	specialPro	multiPro Acrytemp	easyPro

Failure resistance

Quality is our guarantee.

TRUST IN ACRYTEMP

Breakages are a common cause of temporary restoration failure and can result in patient discomfort and additional costs.

The best way to reduce the risk of failure is to choose the most appropriate material on the basis of its behaviour inside the patient's mouth[1,3].

Acrytemp's flexural and compressive strength* **allow the temporary restoration to resist masticatory loads**, which helps reduce the risk of breakage and therefore the failure of the restoration.

*See TECHNICAL DATA table on page 7

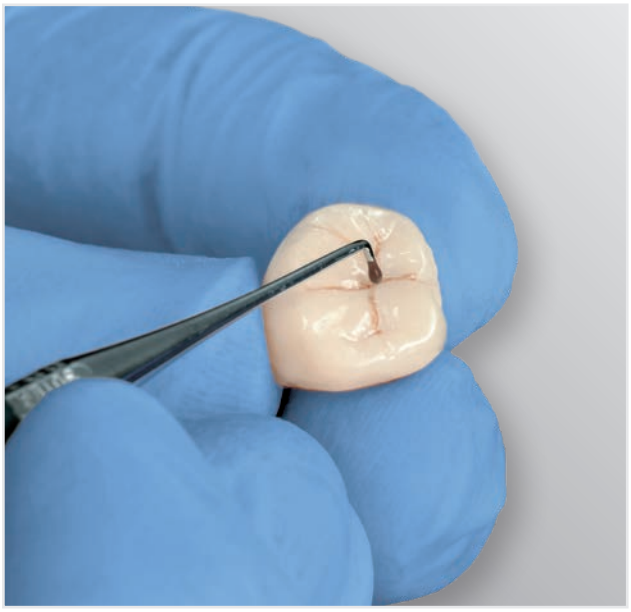
Reliability and safety

Volumetric stability and protection for the tissues.

LIMITED SHRINKAGE

Acrytemp's low cure shrinkage* brings considerable advantages as it **helps to reduce a series of risks such as**[1,5]:

- Creation of a marginal gap between the restoration and the abutment
- Microfractures of both the restoration and the abutment
- Pigmentation at the marginal gap
- Volumetric distortion of the temporary restoration
- Postoperative abutment sensitivity.



LIMITED EXOTHERMIC REACTION

With the direct technique, the considerable exothermy generated by the polymerization reaction of certain self-curing resins can cause a number of clinical complications, including the risk of necrosis of vital teeth[1,2,6].

The limited increase in the temperature of Acrytemp during curing* **helps reduce the risk of damage to the pulp tissue**.

*See TECHNICAL DATA table on page 7

Cosmetic result

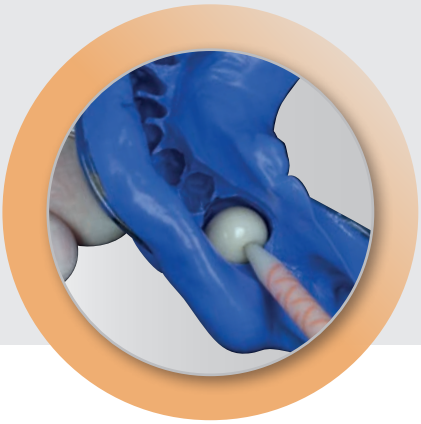
Natural fluorescence for a natural smile.

SATISFACTION FOR PRACTITIONER AND PATIENT ALIKE

Natural fluorescence affords more natural-looking restorations.

For a satisfied patient, choose Acrytemp!

Working techniques



DIRECT TECHNIQUE

- The dentist fabricates the provisional device and prepares the abutment in the same session.

INDIRECT TECHNIQUE (PRE-FILING)

- The dental technician prepares the temporary restoration before the abutment preparation session.

INDIRECT TECHNIQUE (POST-FILING)

- The dental technician prepares the temporary prosthesis after the abutment preparation session.

TECHNICAL DATA

Working time	0'50"
Setting time in the mouth	1-2 minutes
Setting time out of the mouth (in water heated to 50°C)	1'30"
Setting time out of the mouth (at room temperature)	Min 3'00"
Compressive strength	250 MPa
Flexural strength	65 MPa
Cure shrinkage	5%
*Max. temperature achieved during curing	37°C
Shelf-life	2 years
Shades	A1, A2, A3, A3.5, B1

DISPENSING

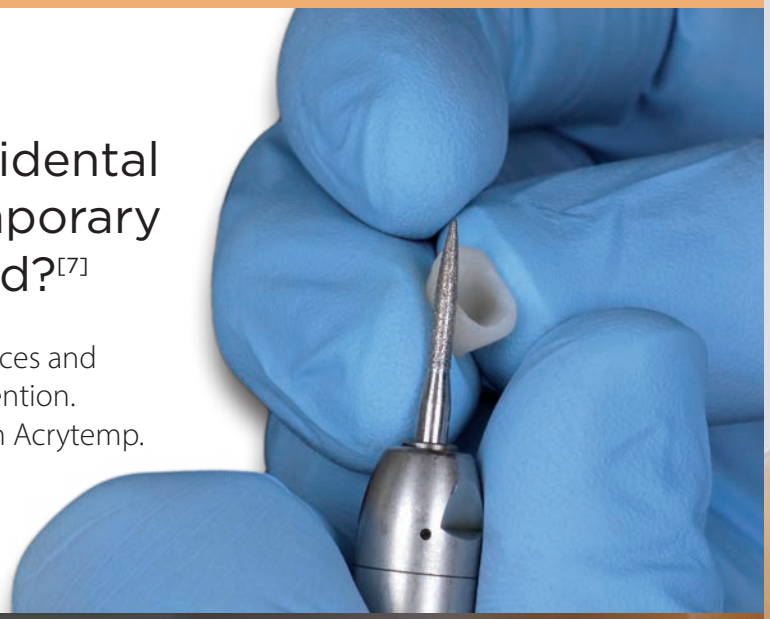
How is it possible to avoid the formation of bubbles?

In order to avoid the formation of air bubbles, it is advisable to position the tip of the mixing cannula in the deepest part of the impression (previously prepared, cleaned and dried), keeping it immersed in the material during dispensing.

BREAKAGE

In the event of an accidental fracture, how can temporary prostheses be repaired?[7]

It is advisable to clean the involved surfaces and roughen them to create mechanical retention. The piece can then be relined again with Acrytemp.



CLEANING THE TEMPORARY RESTORATION

Are there any specific precautions to be taken when fabricating a temporary restoration with bis-acryl resin?[8]

As the superficial layer of the resin does not cure, once it has been fabricated, it is important to clean the temporary restoration with alcohol in order to remove it.

ACCESSORY COMPATIBILITY

Which dispenser can be used to dispense Acrytemp?

Acrytemp cartridges have a 4:1 mixing ratio and they are compatible with the most common 4:1/10:1 dispensers available on the market.

Packaging types

multiPro

Code	Colour	Packaging
C700201	A1	1 x 50 ml cartridge (76 g) + 15 x 4:1 mixing tips
C700200	A2	1 x 50 ml cartridge (76 g) + 15 x 4:1 mixing tips
C700215	A3	1 x 50 ml cartridge (76 g) + 15 x 4:1 mixing tips
C700205	A3,5	1 x 50 ml cartridge (76 g) + 15 x 4:1 mixing tips
C700211	B1	1 x 50 ml cartridge (76 g) + 15 x 4:1 mixing tips

ACCESSORIES

Code	Product
C700230	D2 - 4:1 dispenser
C700240	4:1 Mixing tips (50 pcs)

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[3] Karaokutan I, Sayin G, Kara O. In vitro study of fracture strength of provisional crown materials. The journal of advanced prosthodontics, 2015, 7.1: 27

[4] Shillingburg H, Sather D, Wilson E, Cain J, Mitchell D, Blanco L, Kessler J. Fondamenti di protesi fissa. 2014

[5] Soares C J et al. Polymerization shrinkage stress of composite resins and resin cements–What do we need to know?. Brazilian oral research, 2017; 31.

[6] Schiavetti R, et al. Control and reduction of peak temperature in self-curing resins. ORAL & implantology, 2009; 2.3: 21

[7] Shim, J. S., Park, Y. J., Manaloto, A. C. F., Shin, S. W., Lee, J. Y., Choi, Y. J., & Ryu, J. J. (2014). Shear bond strength of four different repair materials applied to bis-acryl resin provisional materials measured 10 minutes, one Hour, and two days after bonding. Operative dentistry, 39(4), E147-E153.

[8] Gantz, L., Fauxpoint, G., Arntz, Y., Pelletier, H., & Etienne, O. (2021). In vitro comparison of the surface roughness of polymethyl methacrylate and bis-acrylic resins for interim restorations before and after polishing. The Journal of Prosthetic Dentistry, 125 (5Shim, J. S., Park, Y. J., Manaloto, A. C. F., Shin, S. W., Lee, J. Y., Choi, Y. J., & Ryu, J. J. (2014). Shear bond strength of four different repair materials applied to bis-acryl resin provisional materials measured 10 minutes, one Hour, and two days after bonding. Operative dentistry, 39(4), E147-E153.), 833-e1.

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Fulfilling your needs

Application photograph courtesy of: Dr A. Barbaglia and Dr M. Villarroel

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