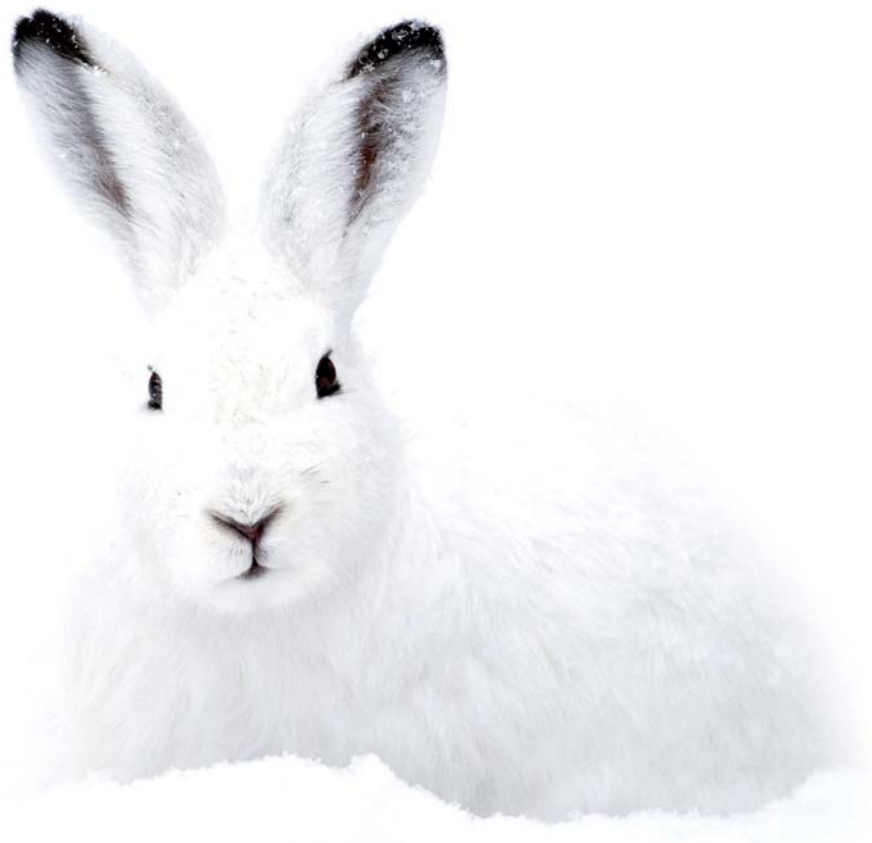


**zmack**<sup>®</sup>

The logo graphic for zmack, consisting of two parallel red diagonal bars slanting downwards from left to right.

**TOTAL CAMOUFLAGE!**

**Clinical**

Universal Micro-Hybrid Composite

**Zhermack**<sup>®</sup>  
CLINICAL

The logo graphic for Zhermack, consisting of two parallel red diagonal bars slanting downwards from left to right.

# zmack® comp

Multi shade range of universal micro-hybrid composites



Product not available in Western Europe.

## Technical data

Compressive Strength	383 Mpa
Flexural strength	139.3 MPa
Flexural Modulus	10700 MPa
Filler content in weight	77 %
Filler content in volume	57 %
Barcol Hardness	75-90
Glass filler size (mean)	< 1 µm
Polymerization Shrinkage	2.46 % (v/v)
Water sorption	12.18 µg/mm <sup>3</sup>
Radio opacity	2.4 mm Al

## Polymerization Times (Curing light output ≥ 500 mW/cm<sup>2</sup>)

Shades	A1, A2, A3, A3.5, B1, B2, C3	A2-O, A3.5-O, B3
Increment or layer	3 mm	2 mm
Curing time	20 seconds	20 seconds

## Accessories

C500130	zmack® bond bottle 4.5 ml
C500131	zmack® etch syringe 3 ml + 25 applicator needles

## USE

- zmack® comp is an aesthetic, visible-light activated, radio-opaque, universal micro-hybrid composite (designed for both anterior and posterior restorations) in syringes indicated for use in:
  - direct restorations of all cavity classes
  - cosmetic reshaping
  - direct veneering material
  - indirect restorations such as inlays & onlays

## CHARACTERISTICS

- Selected colour range, simplified system available in:
  - 8 body VITA® shades (single colour technique): A1, A2, A3, A3.5; B1, B2, B3; C3
  - 2 opaque shades (multiple colour technique): A2-O, A3.5-O
- Easy colour matching: shades mimetically blends with the surrounding tooth structure
- Creamy formula, non-sticky nor slumpy
- Polishes to match natural luster of enamel
- Composition:
  - Filler type : Bariumglass/SiO<sub>2</sub>
  - Matrix: Bis-GMA-adduct, Bis-EMA, TEGDMA
- 4-year shelf life

## ADVANTAGES

- Perfect camouflaging colours: the restoration acquires the appearance of its surroundings, making it "invisible" within the tooth and the adjacent teeth
- Non-sticky non-slumpy, creamy formula that allows the dentist to recreate dental anatomy
- Self micro-levelling behaviour, to facilitate sculpting and avoidance of air bubbles
- Functional and high strength for long lasting results
- Tooth-like appearance polishing capability
- Easy shade application: doesn't need training as required for competitors with multiple shades systems

## Packaging

C500101	zmack® comp syringe 4 g - A1
C500102	zmack® comp syringe 4 g - A2
C500103	zmack® comp syringe 4 g - A3
C500104	zmack® comp syringe 4 g - A3.5
C500105	zmack® comp syringe 4 g - A2-O
C500106	zmack® comp syringe 4 g - A3.5-O
C500110	zmack® comp syringe 4 g - B1
C500111	zmack® comp syringe 4 g - B2
C500112	zmack® comp syringe 4 g - B3
C500115	zmack® comp syringe 4 g - C3

## Kit

C500100	<b>zmack kit:</b> zmack® comp syringes 6 x 4 g (A1, A2, A3, A3.5, B1, B2) + zmack® bond bottle 5 ml + 50 flocked applicators + zmack® etch syringe 3 ml + 25 applicator needles
C500150	<b>zmack kit -O:</b> zmack® comp syringes 6 x 4 g (A2, A3, A3.5, B1, A2-O, A3.5-O) + zmack® bond bottle 5 ml + 50 flocked applicators + zmack® etch syringe 3 ml + 25 applicator needles

# zmack<sup>®</sup> system

*your smart choice to create smiles*

Zhermack presents **zmack<sup>®</sup> system**, the new universal light-cured composites line for conservative restoration that has been studied to solve everyday needs of dental practitioners and patients of any age. Born today, as the result of our laboratory experience and know how.



## Application of:



**zmack<sup>®</sup> etch**



**zmack<sup>®</sup> bond**



**zmack<sup>®</sup> comp**



Before



After

## zmack<sup>®</sup> comp

### • Smart colours, perfect camouflage

Specially designed to mimetically blend with the surrounding tooth structure, **zmack<sup>®</sup> comp** shades become imperceptible, for very natural, aesthetic and lasting results. The selected colour shade range allows the majority of restorations to be completed using a single colour technique, but for special circumstances, two opaque shades are available as well.

### • Smart consistency, for an easier job

**Zmack<sup>®</sup> comp** perfectly adapts to preparation margins, its non-sticky creamy formula easily adapts and sculpts without slump, to allow the dentist to perform their work without any stress.

### • Smart performance, multipurpose & micro-hybrid formula

Reconstructions of anterior and posterior teeth with **zmack<sup>®</sup> comp** are not just beautiful, but functional, reliable and durable thanks to its excellent mechanical properties.



#### Technical Data

Compressive strength	383 Mpa	Barcol hardness	75-90
Flexural strength	139.3 MPa	Glass filler size (mean)	<1 µm
Flexural modulus	10700 MPa	Volumetric shrinkage	2.46 % (v/v)
Filler content in weight	77%	Water sorption	12.18 mg/mm <sup>3</sup>
Filler content in volume	57%	Radio opacity	2.4 mm Al

# zmack® etch & zmack® bond

Smart combination for an outstanding adhesion, in both wet or dry\* dentine.

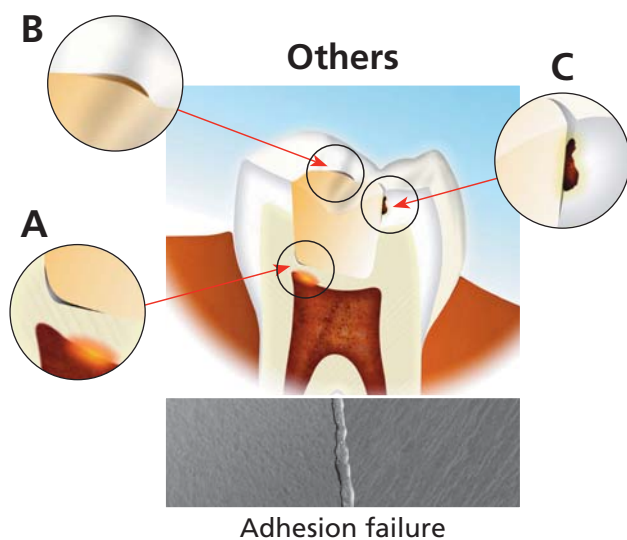


**Zmack® etch** is the first step for a quick, controllable & effective application.

- Smooth consistency, for an accurate positioning
- Improved visibility, due to its contrasting colour
- Residue is easy to recognize after rinsing, to minimize over-etching risk

**Zmack® bond** offers outstanding performance and strong adhesion even in zones and circumstances where similar products commonly fail. **Zmack® bond** is:

- **Effective on humid or dry\* dentine:** is technique tolerant, properly performs on both conditions
- **Visible & easy to apply:** a single coat application evenly penetrates into the tissues avoiding uncovered zones
- **Reliable adhesion:** creates reinforced and resistant marginal seal among the restoration
- **Avoidance of postoperative sensitivity:** as a result of synchronization of the effective bonding behavior with **zmack® comp** there is low polymerization shrinkage
- **Lasting results:** sealing outcome prevents marginal discolouration
- **Resistant to micro-leakage:** tough all-around bonding limits restoration failure



Adhesion failure

## Zmack® system



Reliable adhesion

A - Post-operative sensitivity; B - Marginal discolouration; C - Micro-leakage

\* up to 10 sec max.



## Packaging

C500101	Zmack comp syringe 4 g - A1	C500100	Zmack kit contains:	C500150	Zmack kit-O contains:
C500102	Zmack comp syringe 4 g - A2				
C500103	Zmack comp syringe 4 g - A3				
C500104	Zmack comp syringe 4 g - A3.5		- Zmack comp syringes (6x4 g) shades: A1; A2; A3; A3.5; B1; B2		- Zmack comp syringes (6x4 g) shades: A2; A3; A3.5; B1; A2-O; A3.5-O
C500105	Zmack comp syringe 4 g - A2-O				
C500106	Zmack comp syringe 4 g - A3.5-O		- Zmack bond bottle 5 ml		- Zmack bond bottle 5 ml
C500110	Zmack comp syringe 4 g - B1		- Zmack etch syringe 3 ml		- Zmack etch syringe 3 ml
C500111	Zmack comp syringe 4 g - B2		- Flocked applicators (50 pcs)		- Flocked applicators (50 pcs)
C500112	Zmack comp syringe 4 g - B3		- Applicator needles (25 pcs)		- Applicator needles (25 pcs)
C500115	Zmack comp syringe 4 g - C3				
C500130	Zmack bond bottle 4.5 ml				
C500131	Zmack etch syringe 3 ml + 25 applicator needles				
C500140	Applicator needles (25 pcs)				
C500141	Flocked applicators (50 pcs)				

### BRANCHES

**GERMANY**  
Zhermack GmbH  
Deutschland  
Öhlmühle 10 - D-49448 Marl  
Tel. +49 - 0 54 43 / 20 33 - 0  
Fax +49 - 0 54 43 / 20 33 - 11  
info@zhermack.de  
www.zhermack.com

**POLAND**  
Zhermapol Sp. z o.o.  
ul. Augustówka 14  
02 - 981 Warszawa - Polska  
Tel. +48 - 22 858 82 72  
+48 - 22 858 73 41  
Biuro +48 - 22 642 07 14  
biuro@zhermapol.pl  
www.zhermapol.pl

**USA**  
Zhermack Inc.  
P.O. Box 4195, River Edge  
New Jersey 07661 - 4195  
Tel. +1 (877) 819 6206  
+1 (732) 389 8540  
Fax +1 (732) 389 8543  
info@zhermackusa.com  
www.zhermackusa.com

### COUNTRY CONTACTS

**UK AND IRELAND**  
Tel. +44 - (0)7870 690811  
uk@zhermack.com

**SPAIN**  
Tel. 900 99 39 52  
info.spain@zhermack.com

**FRANCE**  
Tel. +0800 - 915083  
info.france@zhermack.com

**RUSSIA**  
Tel. +7 916 930 1191  
info.russia@zhermack.com

**MEXICO AND CENTRAL AMERICA**  
Tel. +52 - 1 - 55 - 91980497  
info.mexico@zhermack.com

**SOUTH AMERICA**  
Tel. +57 - 310 - 2601 777  
info.colombia@zhermack.com

### Zhermack SpA

Via Bovazecchino, 100 - 45021 Badia Polesine (RO) ITALY  
Tel. +39 - 0425 597611 Fax +39 - 0425 53596 info@zhermack.com www.zhermack.com