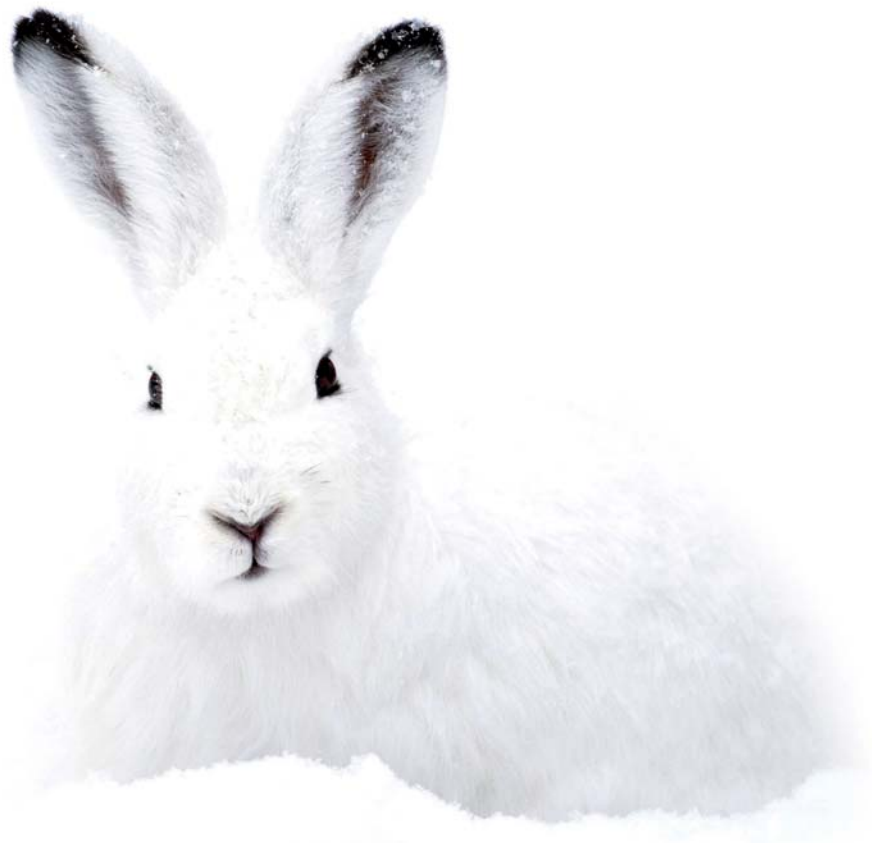


zmack[®]

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

TOTAL CAMOUFLAGE!

Clinical

Universal Micro-Hybrid Composite

Zhermack[®]
CLINICAL

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

zmack® bond

Total etch adhesive



1. Dispense zmack® bond adhesive directly onto a clean applicator tip (or disposable brush), making sure that the bottle does not come in direct contact with the applicator tip.
2. Replace cap promptly.
3. Using the applicator tip (or disposable brush), apply the product wetting all cavity surfaces uniformly. Avoid pooling.
4. This surface should remain undisturbed for 20 seconds.
5. Evaporate solvent by thoroughly drying with clean, dry air from a dental syringe for at least 5 seconds. Use a vacuum aspirator to prevent spatter of the adhesive onto the mucosa.
6. Surface should have a uniform glossy appearance. If not, repeat application and air dry.
7. Cure for at least 20 seconds if light output is between 500 and 800 mW/cm².

Product not available in Western Europe.

USE

- zmack® bond etch and rinse adhesive is a light-cured self-priming dental adhesive designed to bond resin-based materials to enamel and dentin, indicated for:
 - direct, light-cured composite and compomer restoratives
 - composite and compomer repairs
 - cementation of indirect restorations with a light-cured resin cement

CHARACTERISTICS

- Effective on both humid or dry* dentine (*up to 10 sec)
- Self priming: avoids the need of 3 steps application
- Visible bright glistening aspect
- Excellent wetability, easy to apply
- Single coat application and polymerization
- High bond strength
- Composition and function :
 - PENTA: adhesion promoter
 - TCB: acidic methacrylate resin
 - UDMA: methacrylate resin
 - TEGDMA: methacrylate resin
 - HEMA: wetting agent
 - Nanofiller: increases strength, ~ 8 nm
 - Camphorquinone: photoinitiator
 - Stabilizer: ensures shelf life
 - Tertiary-butanol: solvent (< 25%)
- 2-year shelf life

ADVANTAGES

- Technique tolerant, excellent performance on both humid or dry* dentine (*up to 10 sec)
- Easy to apply, even penetration into the tissues, without the need of brushing it
- Easy application, the visible bright glistening aspect facilitates application and prevents uncovered zones
- A single coat application creates the necessary film layer to provide excellent adhesive zone
- Creates reinforced and resistant marginal seal among the restoration, to prevent micro-leakage
- Avoidance of postoperative sensitivity: as a result of synchronization of the effective bonding behavior with zmack® comp low polymerization shrinkage
- Sealing outcome prevents marginal discolouration

Polymerization times

Light output	≥ 550 mW/cm ²	≥ 800 mW/cm ²
Curing time	20 seconds	10 seconds

Packaging

C500130	zmack® bond bottle 4.5 ml
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Accessories

C500141	Flocked applicators (50 pcs)
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zmack[®] system

your smart choice to create smiles

Zhermack presents **zmack[®] 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[®] etch



zmack[®] bond



zmack[®] comp



Before



After

zmack[®] comp

• Smart colours, perfect camouflage

Specially designed to mimetically blend with the surrounding tooth structure, **zmack[®] 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[®] 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[®] 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 ³
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.

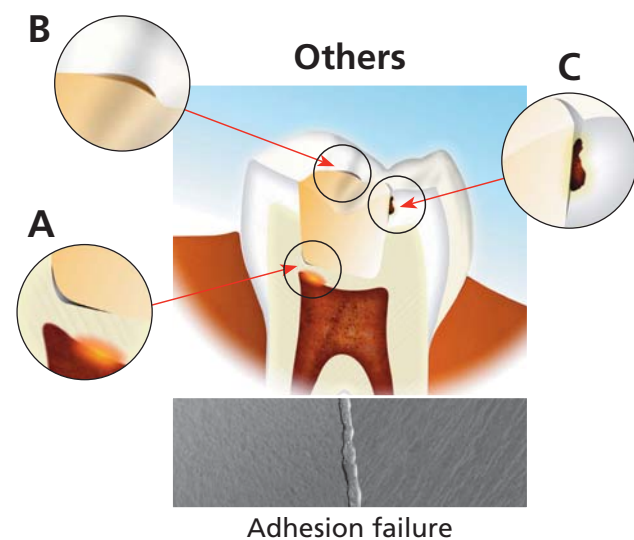


Zmack® etch is the first step for a quick, controllable & effective application.

- 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



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)				

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