

NEW

Tetric[®] N-Bond Universal

The tolerant universal adhesive



Selective-Etch



Self-Etch



Total-Etch

Universal for
direct and indirect
bonding procedures



ivoclar
vivadent[®]
passion vision innovation

Tetric® N-Bond Universal

UNIVERSAL APPLICATION

One adhesive for every etching technique

Tetric® N-Bond Universal is a single-component, light-curing universal adhesive for direct and indirect bonding procedures. Its mildly acidic properties make it suitable for all etching techniques: self-etch, selective-enamel-etch and total-etch.

3 etching techniques – 1 application protocol



Apply one layer of Tetric® N-Bond Universal on the tooth surface and agitate for min. 20 s.

Self-etch technique

- time-saving
- reduces the risk of postoperative sensitivities



Apply phosphoric acid only on the enamel surface and leave to react for 15 to 30 s. Subsequently, apply Tetric® N-Bond Universal on enamel and dentin and agitate for 20 s.

Selective-enamel-etch technique

- enhances adhesion to enamel
- improves the marginal seal



Etch both enamel (15 – 30 s) and dentin (10 – 15 s) with phosphoric acid. Then apply Tetric® N-Bond Universal on the enamel and dentin surfaces and agitate for 20 s.

Total-etch (etch & rinse) technique

- maximizes adhesion to both enamel and dentin
- improves the marginal seal

R&D, Ivoclar Vivadent AG, Schaan, 2013

Suitable for direct and indirect bonding procedures

Due to its special composition, the adhesive Tetric N-Bond Universal is also suitable for indirect restorations, applied as adhesive in combination with a luting composite. The application protocol is identical for both direct and indirect indications.

- Low film thickness (approx. 10 µm) that will not impede the accuracy of fit of indirect restorations
- Mild etching effect and therefore compatible with various cementation materials (light-, dual- and self-curing)
- No activator is required for dual-curing luting composites

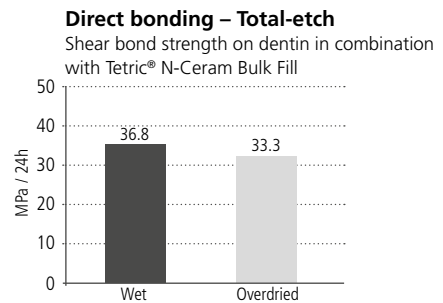
HIGH TECHNIQUE TOLERANCE

High bond strengths on wet and dry dentin

Tetric N-Bond Universal combines hydrophilic and hydrophobic material properties in one product. The hydrophilic components render wet bonding superfluous.

Even previous etching with phosphoric acid and over-drying of the dentin surfaces do not compromise the bond to dentin.

As a result, Tetric N-Bond Universal achieves high bond strengths on wet as well as dry dentin.



Source: R&D Ivoclar Vivadent AG, Schaan, 2014

Universal storage

Tetric N-Bond Universal contains a low concentration of acidic monomers featuring a mildly etching effect. Therefore, the monomer mixture is resistant to hydrolytic decomposition. Tetric N-Bond Universal can be stored at room temperature without any problems.



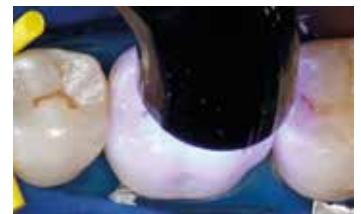
Easy application in only 35 s



Apply a coat of adhesive and agitate for 20 s.
R&D, Ivoclar Vivadent AG, Schaan, 2013



Disperse the adhesive with compressed air until a glossy, firm layer results.

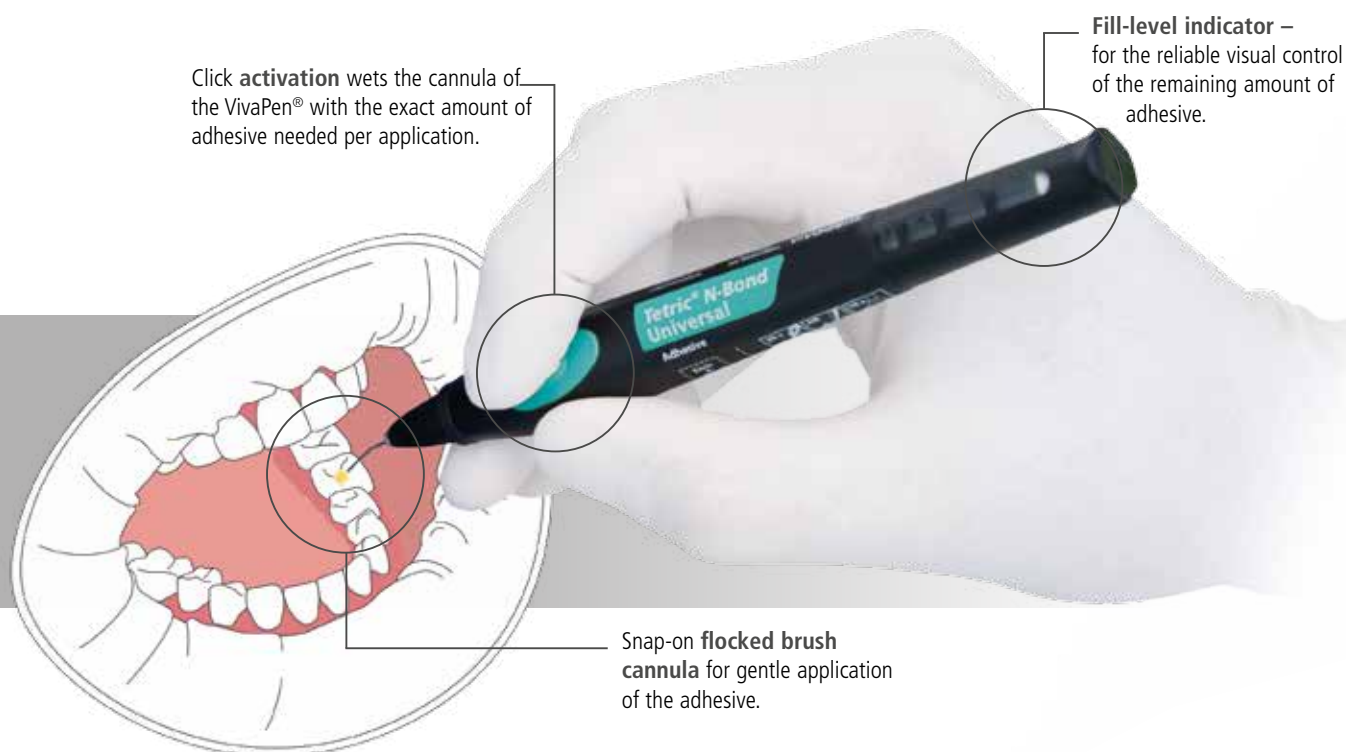


Light-cure for 10 s (e.g. with the Bluephase N® polymerization light).

UNIVERSAL DELIVERY

Tetric N-Bond Universal is available in the bottle and the ergonomic VivaPen® delivery form.

The VivaPen delivery form ensures fast and convenient application of the adhesive directly in the patient's mouth.

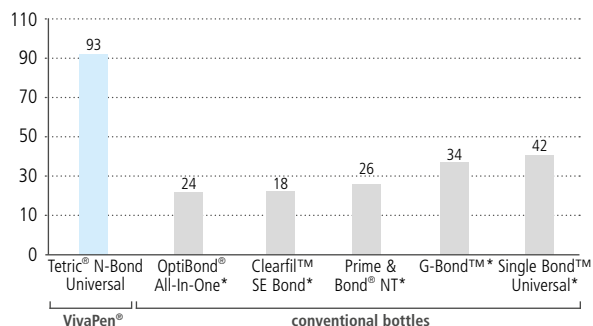


Precision Click & Bond® dispensing

The simple "Click" activation allows the clinician to control the exact amount of material to be dispensed for each procedure. Dispensing of adhesive material into a dish before the application is no longer required. Thus residual material waste is significantly reduced.

The 2 millilitres of adhesive contained in the VivaPen are sufficient for approx. 190 single-tooth applications. Compared to conventional bottle delivery forms, this amounts to almost 3 times more applications per millilitre.

Number of single-tooth applications per ml



* Not registered trademarks of Ivoclar Vivadent AG.
Source: Berndt & Partner, VivaPen Benchmarking Study, August 2014

Ordering information

668222AN Refill VivaPen 1 x 2 ml
 674175AN Refill VivaPen 1 x 2 ml / 40
 668223AN Starter Kit VivaPen 1 x 0.5 ml
 627178 Refill VivaPen snap-on cannulas (100 pcs.)

627492 Refill VivaPen protective sleeves (300 pcs.)
 668221AN Refill bottle 1 x 6 g
 603949 Refill Vivadent applicators

PREDICTABLE RESULTS

High shear bond strengths

Tetric N-Bond Universal achieves consistently high bond strengths on enamel and dentin with only one layer of adhesive, irrespective of the etching protocol employed.

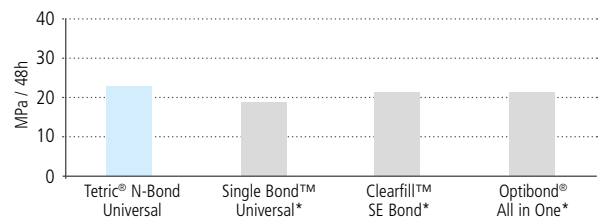
Light-curing prior to the placement of indirect restorations immobilizes acid monomers, ensuring excellent polymerization of the transitional area between the adhesive and the luting composite. An additional dual-curing activator is not required.

Minimum risk of postoperative sensitivity

The acetone-free, hydrophilic solvent contained in Tetric N-Bond Universal ensures optimum wetting of the dentin and enamel. This results in enhanced infiltration and optimum sealing of the dentinal tubules and reduces the risk of microleakage and postoperative sensitivity.

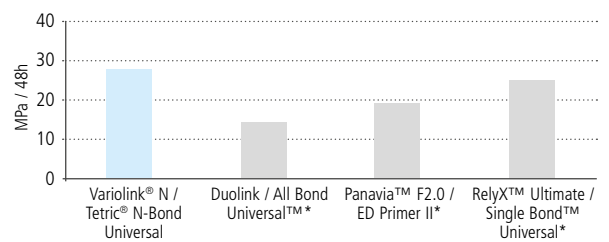
Direct bonding – Self-etch

Shear bond strength in combination with Tetric® N-Ceram Bulk Fill on human dentin



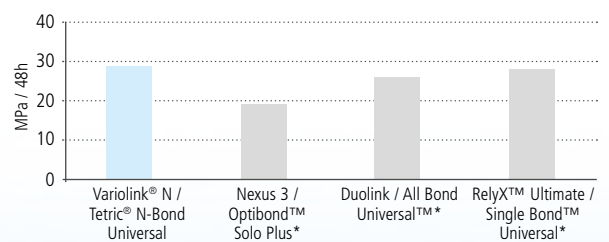
Indirect bonding – Self-etch

Shear bond strength on human dentin



Indirect bonding – Total-etch

Shear bond strength on human dentin



* Not registered trademarks of Ivoclar Vivadent AG.
Source: Dr E. Mahn, Universidad de los Andes, Chile, 2014



Direct Restoratives

Tetric N-Bond Universal forms a part of the "Direct Restoratives" product category. The products of this category cover the procedure involved in the direct restoration of teeth – from preparation to restoration care. The products are optimally coordinated with each other and enable successful processing and application.



THESE ARE FURTHER PRODUCTS OF THIS CATEGORY:

Tetric® N-Ceram Bulk Fill

The nano-optimized 4-mm composite

Fluor Protector N

The protective fluoride varnish



4 mm to success

- Bulk filling is possible due to Ivocerin®, the patented light initiator
- Special filler technology ensures low shrinkage stress
- Esthetic results are achieved quickly and efficiently in the posterior region

Superior protection against dental caries and erosion

- Effective – immediate fluoridation of enamel
- Efficient – immediately ready for use
- High-yielding – economical delivery

Would you like to know more about the products of the "Direct Restoratives" category? Simply get in touch with your contact person at Ivoclar Vivadent or visit www.ivoclarvivadent.com for more information.