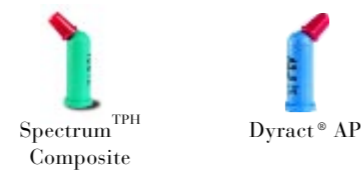


Nano-Technology: reliability, simplicity and speed.

Applications:

Prime&Bond® NT is a truly universal bond:

- ▶ Composite restorations
- ▶ Dyract® compomers
- ▶ Cementation procedures
- ▶ Adhesive repairs
- ▶ Adhesive cavity varnish
- ▶ Protective varnish

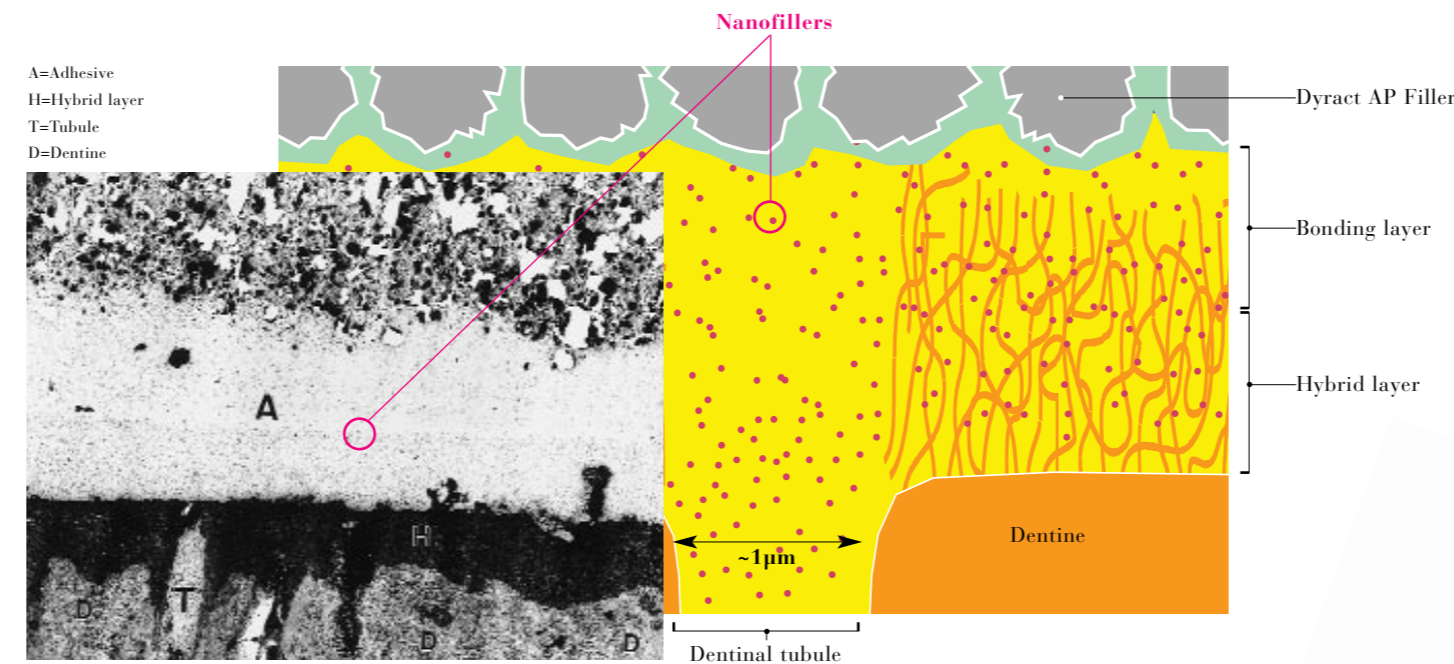


Advantages:

Why nano dentistry?

In dental materials, fillers are incorporated in composites or compomers to increase strength. For today's adhesive bonding, nanofillers offer the same benefit. They allow an adhesive to be reinforced by tiny particles while maintaining essential properties of high performance bonding.

Nano-Technology gets adhesion closer to nature



What is new:

The tradition of innovation

- ▶ 1993 Dyract®-PSA Prime/Adhesive for Dyract
- ▶ 1995 Prime&Bond® 2.0 for composites
- ▶ 1996 Prime&Bond® 2.1 for composites and Dyract® compomers
- ▶ 1998 Prime&Bond® NT, Nano-Technology is introduced into adhesive dentistry

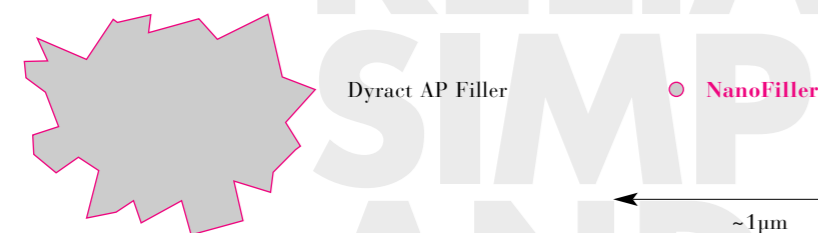
The evolution of competence



Since its introduction, the One-Bottle-Bond™ technology has received excellent ratings. High retention rates, excellent marginal quality, absence of recurrent caries and outstanding handling properties are some highlights.

Introducing Nano-Technology into adhesive dentistry

Fillers found in modern composites or compomers are about the size of 1 micron. In contrast, nanofillers are extremely small and fine fillers. Nanoscale fillers are more than 100 times smaller than traditional fillers. This is actually too small to be seen. Prime&Bond® NT therefore looks transparent.



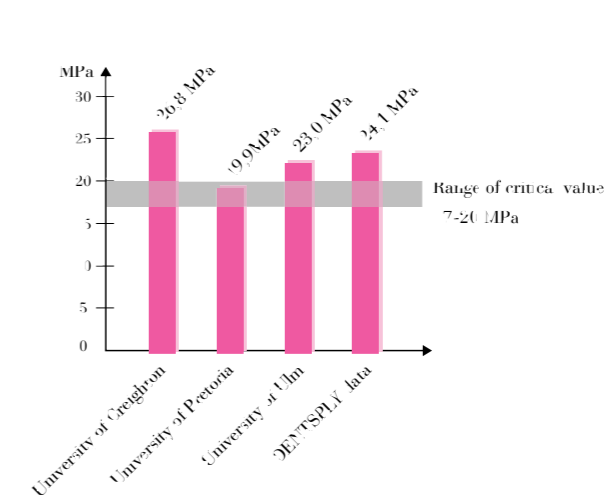
Nanofillers have the perfect size to penetrate the typical micro-sized key-hole etch pattern of enamel as well as the smallest dentine channels. The particle size is about 7 nanometers (one nanometer equals 1/1000 of a micrometer). Once there, these tiny particles support the natural components of dentine while building the foundation for a perfect link between tooth structure and the restorative materials.

Nano-Technology gives consistently high bond strength

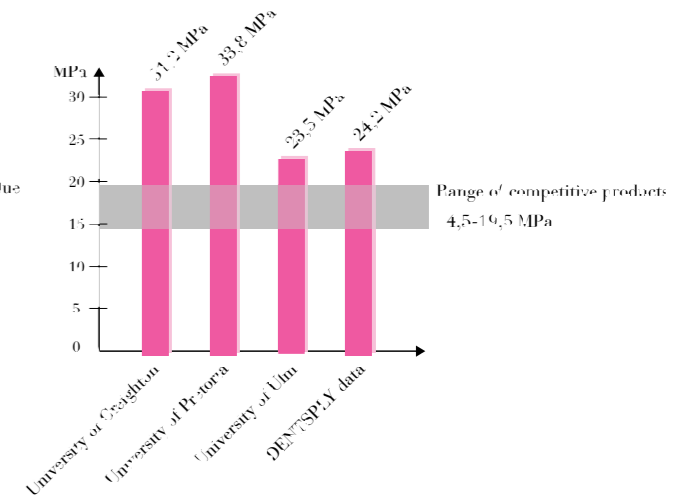
Prime&Bond® NT easily exceeds the critical need of 20 MPa of bond strength to dentine. This has been demonstrated at:

- University of Creighton, USA
- University of Ulm, Germany
- University of Pretoria, South Africa

Adhesion to Dentine

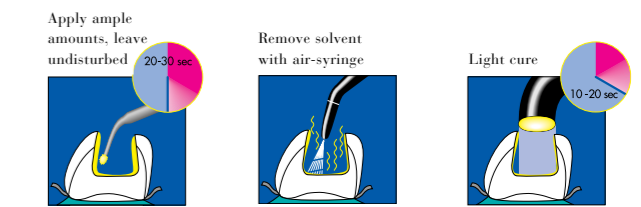


Adhesion to Enamel



Nano-Technology....one coat only

With nanofillers, one single coat of Prime&Bond® NT is sufficient to achieve perfect marginal integrity and outstanding adhesion. Treatment time is minimal. The one layer technique also increases economic usage of a high performance adhesive.

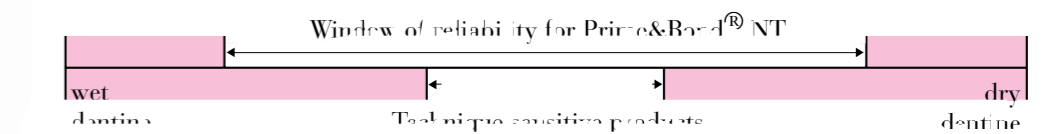


Nano-Technology....universal application technique

Whether for composites or compomers, cementation procedures, repairs or as a varnish. Only one procedure is required for all indications.

Nano-Technology....high safety levels

Over wet or dry dentine is known to challenge bonding procedures. Based on its unique composition Prime&Bond® NT now offers a wider more versatile window of opportunity for successful adhesive dentistry. Nano-Technology leads to high levels of technique safety.



NANO TECHNOLOGY
RELIABILITY
SIMPLICITY
AND SPEED

Prime&Bond[®]NT

Summary of benefits:

The essence of Nano-Technology:

- ▶ Ideal support of natural dentine structure
- ▶ Extremely high bond strengths
- ▶ Unified application procedure
- ▶ One coat application only
- ▶ Reduced technique sensitivity

Proven performance with One-Bottle-Bond[™] adhesives:

- ▶ 5 years of clinical experience
- ▶ Over 50 clinical studies
- ▶ Over 60 scientific publications
- ▶ More than 100 million clinical applications

Clinical evidence:

The performance of Prime&Bond[®] NT has thoroughly been evaluated under various conditions at a number of renowned universities:

- University of Creighton, USA
- University of Ulm, Germany
- University of Pretoria, South Africa
- University of Siena, Italy
- University of Mainz, Germany
- University of Heidelberg, Germany
- University of Michigan, USA



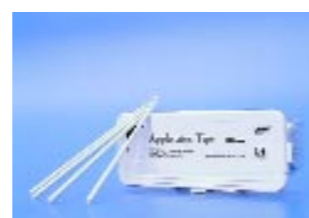
Packaging:



Prime&Bond[®] NT Starter Pack



Prime&Bond[®] NT refill



Applicator tips refill



Apli-Dish[™] refill

Order-No.	Pack	Contents
606.67.250	Prime&Bond [®] NT Starter Pack	1 Bottle Prime&Bond [®] NT, 4.5 ml 50 Applicator tips 1 Syringe DeTrey [®] Conditioner 36, 3 ml 25 Applicator needles 1 Illustrated technique guide
606.67.240	Prime&Bond NT refill	2 Bottles Prime&Bond [®] NT, 4.5 ml each
606.67.198	Applicator tips refill	100 Applicator tips
606.04.518	Apli-Dish [™] refill	50 Disposable dappen dishes



*Nano-Technology:
reliability, simplicity and speed*

Prime&Bond[®]NT

Restoratives

DENTSPLY

702.00.060 7/98

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