



# PEAK™

UNIVERSAL ADHESIVE SYSTEM



2x Winner



## THE GOLD STANDARD IN ADHESIVE DENTISTRY

Peak Universal Bond adhesive features



phosphate monomer blend,  
a more advanced, stronger  
technology than MDP.<sup>1</sup>



1. Data on file.

# THE STRENGTH OF DENTIN

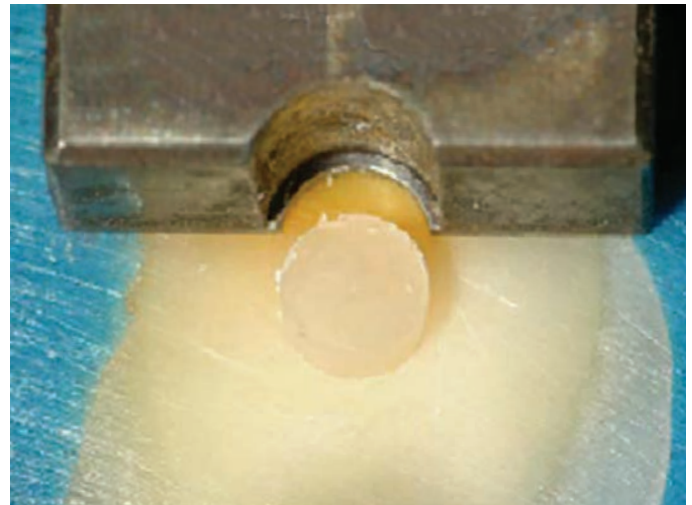
Beginning in the 1990s, Ultradent's Research and Development team was heavily focused on creating a versatile and extremely strong bonding agent. During those years, we developed a shear bond strength testing method that has since been adopted as the ISO standard. This method of bond strength testing led to an understanding of actual tooth strength and ultimately, Ultradent's advanced adhesive technology.

Dentin is strong. It has an average shear strength of about 85 MPa.<sup>1</sup> That is a daunting measurement for bonding agents to achieve, but Peak Universal Bond adhesive has done just that. Designed with a smart, custom-synthesized monomer blend, Peak Universal Bond adhesive is the only dental adhesive that has been shown to achieve bond strengths of 70 MPa or higher<sup>2</sup>—effectively re-creating the original strength of the tooth and qualifying as a true restoration.

Dentin milled away leaving a protrusion for shear strength testing.



Shearing off a dentin protrusion is the best method for discovering true tooth strength.



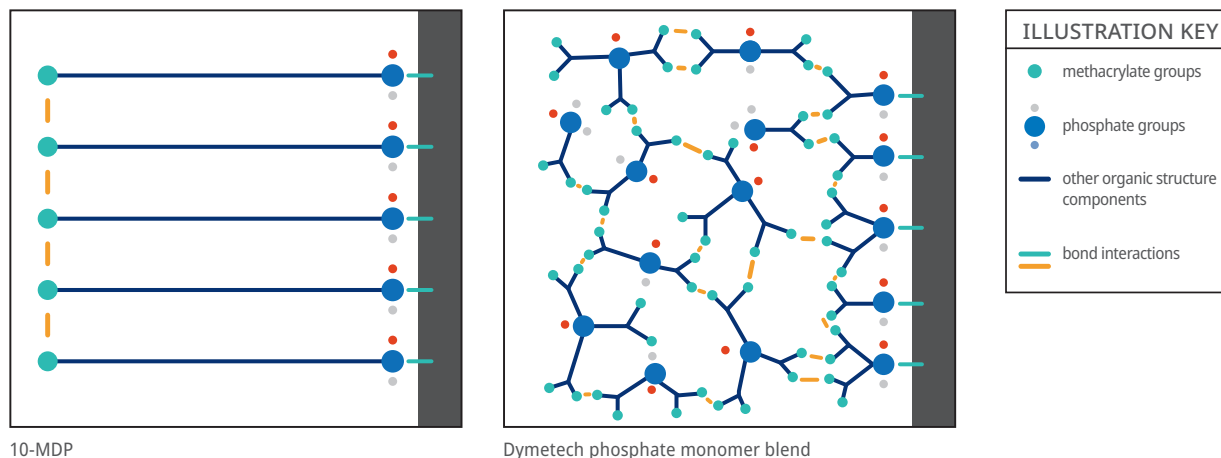
1. Data on file. 2. Data on file.

Ultradent's shear bond strength testing method has been adopted as the ISO standard. Many research centers now use this method to determine accurate bond strengths.



# MONOMER BLEND

Over decades of refining and improving, Ultradent's Research and Development team has developed an adhesive that has outperformed the competition.<sup>1</sup> Rather than building around one monomer such as 10-MDP, we realized that a precise combination of monomers was a better solution. **Dymetech™ phosphate monomer blend is a proprietary blend of three phosphate monomers and twelve cross-linking methacrylate groups that provides time-tested strength and versatility across virtually all substrates.** It is the backbone of the strongest bonding agent we have ever tested.<sup>1</sup>



The 10-MDP monomer (Image 1) is a long-chained monomer that consists of a methacrylate group on one end and a phosphate group on the other. This can limit the number of bond interactions. The Dymetech monomer blend (Image 2) has more functional groups (phosphates and monomers) than 10-MDP which creates a greater amount of bond interactions.

Illustrations are meant for demonstration purposes only and may not accurately depict real monomers.

# EMPOWERING MINIMALLY INVASIVE DENTISTRY

When a dentist can truly trust the strength of their bonding agent, they can do more minimally invasive dentistry and preserve more natural dentition. The proof is in the longevity of our customers' restorations.

Photos courtesy of Dr. Jaleena Jessop.



Patient in their mid-20s recommended for full coverage crowns in all four quadrants due to sensitivity when chewing. Large MOD amalgams with connecting buccal and lingual Class Vs.



After removal of existing restorations and underlying decay.



Notice cusps have been beautifully maintained. Goal was to preserve remaining tooth structure.



Restored Class V restorations on buccal and lingual first, and then the MOD.



Immediately after restoring.



15-year follow up. Notice slight decay on number 31 on the mesial-cervical region. Easy composite repair.

# TESTIMONIALS

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*I have tested Peak Universal Bond [adhesive] against different competitors and I believe it is an excellent bonding agent, combining clinical simplicity and efficacy. It contains chlorhexidine which provides long-term bond strength and long-lasting bond to all substrates, making it a real universal bonding agent for all purposes in the dental office.*

**– Dr. Lorenzo Breschi - Italy**

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*Peak [Universal Bond adhesive] is an adhesive that is extremely simple to use and allows me to predictably and reliably perform my work with composite resins.*

**– Dr. Newton Fahl - Brazil**

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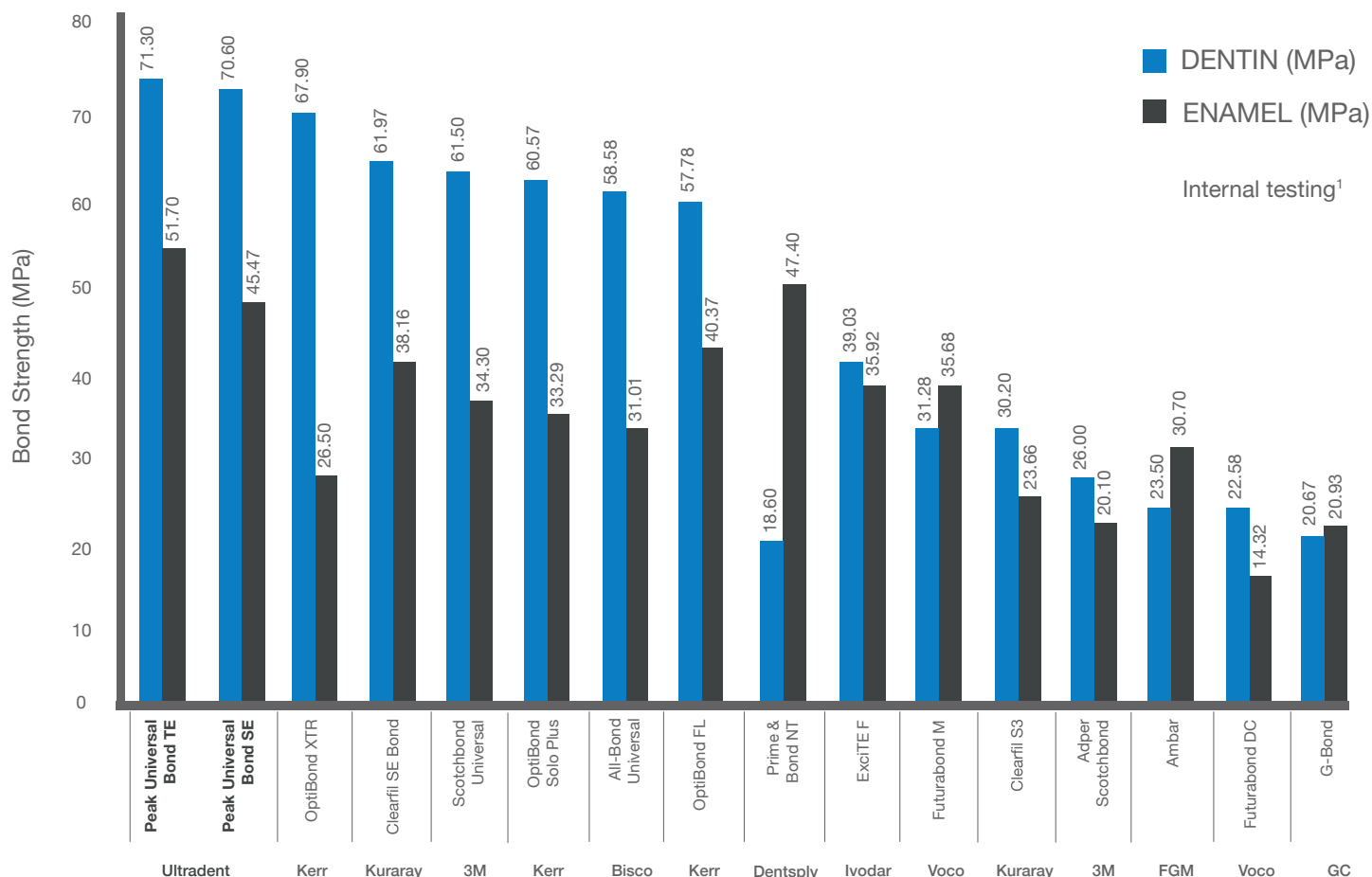
*Peak Universal Bond [adhesive] consistently matches or beats the leading adhesives on the market today. Whether your priority is trusted R&D, the highest shear bond strength values, or flexibility and low standard deviation, Peak delivers on all accounts and is my trusted bond in practice.*

**– Dr. Foroud Hakim - United States**

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# HIGHEST BOND STRENGTH

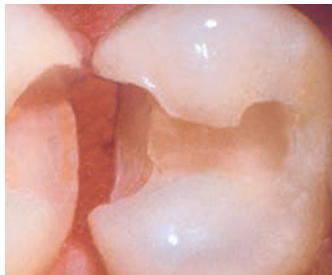
Weak bonds can lead to failed restorations, sensitivity, unhappy patients, and damaged reputations for clinicians. The Dymetech monomer blend has been shown to help create long-lasting, strong bonds that measure at or near the original strength of dentin.<sup>1</sup> Peak Universal Bond also contains 0.2% chlorhexidine to help ensure long-term bond strength.<sup>2-5</sup> In fact, Peak Universal Bond adhesive has maintained the highest bond strength against the competition.<sup>1</sup>




1. Data on file. 2. Breschi L, Maravic T, Comba A, et al. Chlorhexidine preserves the hybrid layer in vitro after 10-years aging. *Dent Mater.* 2020;36(5):672-680. doi:10.1016/j.dental.2020.03.009 3. Carrilho MR, Carvalho RM, Sousa EN, et al. Substantivity of chlorhexidine to human dentin. *Dent Mater.* 2010;26(8):779-785. doi:10.1016/j.dental.2010.04.002 4. Maravić T, Comba A, Cunha SR, et al. Long-term bond strength and endogenous enzymatic activity of a chlorhexidine-containing commercially available adhesive. *J Dent.* 2019;84:60-66. doi:10.1016/j.jdent.2019.03.004 5. Mazzoni A, Carrilho M, Papa V, et al. MMP-2 assay within the hybrid layer created by a two-step etch-and-rinse adhesive: biochemical and immunohistochemical analysis. *J Dent.* 2011;39(7):470-477. doi:10.1016/j.jdent.2011.04.004

# UNIVERSAL APPLICATION

Thanks to the Dymetech monomer blend, Peak Universal Bond adhesive bonds to dentin, enamel, porcelain, zirconia, metal, and lithium disilicate. It is ideal for direct and indirect bonding procedures as well as post and core procedures. It also works with both self-etch and total-etch techniques. All in all, Peak Universal Bond has higher bond strengths across more indirect restorative materials than leading competitors.<sup>1</sup>



 Dentin and Enamel



 Porcelain/Ceramic



 Zirconia



 Composite



 Metal



1. Siqueira F, Cardenas AM, Gutierrez MF, et al. Laboratory Performance of Universal Adhesive Systems for Luting CAD/CAM Restorative Materials. *J Adhes Dent*. 2016;18(4):331-40. doi: 10.3290/j.jad.a36519. PMID: 27419246.

# PEAK™

UNIVERSAL ADHESIVE SYSTEM

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REFRIGERATE

## 4543 - Peak Universal Bond **Bottle 1pk**

4 ml bottle



REFRIGERATE

## 4542 - Peak Universal Bond **Total-Etch Bottle Kit**

1 x 4 ml Peak Universal Bond bottle  
4 x 1.2 ml Ultra-Etch syringes  
40 x Blue Micro tips  
50 x Mixing Wells  
50 x Micro Applicator brushes



REFRIGERATE

## 4551 - Peak Universal Bond **Total-Etch Intro Kit**

1 x 1.2 ml Peak Universal Bond syringe  
1 x 1.2 ml Ultra-Etch syringe  
20 x Blue Micro tips  
20 x Inspiral Brush tips



REFRIGERATE

## 4553 - Peak Universal Bond **Syringe 4pk** 4552 - Peak Universal Bond **Syringe 20pk**

1.2 ml syringes



REFRIGERATE

## 4541 - Peak Universal Bond **Self-Etch Bottle Kit**

1 x 4 ml Peak Universal Bond bottle  
4 x 1.0 ml Peak SE Primer syringes  
40 x Black Mini Brush tips  
50 x Mixing Wells  
50 x Micro Applicator brushes



REFRIGERATE

## 4554 - Peak Universal Bond **Self-Etch Intro Kit**

1 x 1.2 ml Peak Universal Bond syringe  
1 x 1.0 ml Peak SE Primer syringe  
20 x Black Mini Brush tips  
20 x Inspiral Brush tips



REFRIGERATE

## 5006 - Peak Universal Bond **Unit Dose 50pk**

0.2 ml unit dose

