Skip the roughening and the sandblasting with Assure Plus

By Reliance Staff

Four years ago, Reliance released a revolutionary product, Assure® Plus. On top of bonding to every artificial surface found in the mouth, one of the most attractive features of Plus, according to the company, is the ability to eliminate the intraoral use of hydrofluoric acid to etch ceramic crowns.

To the naked eye, all “ceramic” substrates look similar intraorally. The unfortunate fact is a “ceramic” surface can potentially be fabricated from lithium disilicate, porcelain, layered zirconia, monolithic zirconia and so on. In previous years, bond strength values were very poor if porcelain conditioner was applied to a zirconia surface, thus the clinician had to be confident the substrate was porcelain.

According to Reliance, there is news on the ever-developing situation of bonding to ceramic crowns. Extensive tests have shown that roughening or even sandblasting are no longer needed when using Reliance Porcelain Conditioner and Assure Plus. Furthermore, the task of differentiating zirconia from porcelain is unnecessary. When confronted with bonding to a crown (porcelain or zirconia), the steps are as follows:

1. Prophy, rinse and dry
2. Apply one coat of Reliance Porcelain Conditioner, wait 60 seconds and air dry
3. Apply one coat of Assure Plus, air dry and light cure
4. Apply bracket with paste and light cure

Far too often we take for granted the benefit of a thorough prophylaxis. If adapting the above bonding modality, a thorough prophy is absolutely imperative to an acceptable bond strength. The air drying of the active ingredient in Reliance Porcelain Conditioner now allows the clinician to skip the substrate identification. If the substrate is porcelain, the silane will bond to the glass filler. If the surface is zirconia, the drying and 60-second wait time allow the silane to go unutilized without interfering with Assure Plus.

Much like Assure regular, Assure Plus built its foundation on being the only primer to bond to wet or dry, normal or atypical surfaces. According to the company, atypical enamel (hypocalcified, fluorosed, aprismatic, etc.) presents a serious challenge if the clinician is not

When using Reliance Porcelain Conditioner and Assure Plus, roughening or even sandblasting might no longer be needed, according to Reliance.

Photo/Provided by Reliance

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by G&H Orthodontics Staff

G&H Orthodontics, which says it is recognized as one of the world’s best manufacturers of premium archwires, introduces TitanMoly Titanium Molybdenum arch wires. According to the company, TitanMoly’s greatest advantage for orthodontists is the easier and faster archwire sequencing, which can reduce treatment times and patient discomfort.

“Orthodontists recognize our smooth-er wire,” Brandon Bernacchi, vice president of manufacturing, said. “The state-of-the-art diamond drawing process we use when combined with our proprietary mechanical polishing technology ensures a smoother surface for improved sliding mechanics and a more attractive finish. It’s important to note that independent laboratory tests have validated this comparison for G&H.”

Orthodontist Kristine S. West, DDS, MS, said that, “TitanMoly is the most effective titanium molybdenum arch wire I have found. It is easily adaptable without breakage and enhances my treatment plans.”

According to the company, TitanMoly is the perfect bendable, nickel-free wire. It has enough recovery force and bendability without breaking. It is the preferred wire over stainless steel for a wide range of cases. Using TitanMoly means clinicians will have nearly twice the working range of stainless-steel wires, with 45 percent less deflection recovery force than stainless steel.

TitanMoly is a great wire for nickel sensitive patients because it contains no nickel, the company states.

To learn more about the features and benefits of TitanMoly, please visit GHOrthodontics.com/TitanMoly.

“The clinical advantages of titanium molybdenum archwires have been well documented,” said Howard A. Fine, DMD. “TitanMoly wires offer all the advantages plus reduced friction.”

About G&H Orthodontics

G&H Orthodontics is a leading provider of clinical solutions for the orthodontic community, serving customers for more than 41 years in more than 90 countries. G&H manufacturers a full line made in the United States, including brackets, bands, tubes, wires, springs, elastomerics and other orthodontic supplies. G&H Orthodontics is a privately held company headquartered in Franklin, Ind.

To learn more about G&H Orthodontics breadth of products, visit GHOrthodontics.com.

using Assure or Assure Plus. On top of all the artificial surface bonding capabilities above, the variable reducing properties on enamel are the reason offices with the lowest bond failure rates utilize Assure Plus as a full-time, everyday primer, according to Reliance.

There are only two cases where any etching step is necessary: amalgam or composite restorations. Clinicians need to eliminate the idea that phosphoric acid will simply “clean” the work surface. The reasons are two-fold: chairside efficiency and primer interference.

If there is no enamel present, etching is a waste of time and money. Furthermore, etching can be detrimental to the bonding process when bonding to zirconia. If phosphoric acid is applied to a zirconia crown to “clean the surface,” the phosphate ions will attach to the substrate and subsequently repel the primers.
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By Dr. Chris Farrell, BDS, CEO and founder of Myofunctional Research Co. (MRC)

ost dental professionals, by now, should be well aware of the rapid changes altering the dental playing field today. The market-driven nature of corporatization of the industry and oversupply of new dental graduates, have been well highlighted in professional publications, and the new focus on 21st-century, evidence-based practice. In addition to opening potential new revenue sources, the dental profession is being as well as operate a profitable practice. Nevertheless, the good news for forward-thinking dental professionals focused on 21st-century, evidence-based dental and health care, the opportunity to improve their patient’s health and well-being as well as operate a profitable practice is available.

To learn more about MRC’s patient education programs and to begin implementing the Myobrace and myOSA treatment systems, visit the courses section at myosaresearch.com.