

E-Z Bond™

The Multi-Strand Wire Retainer

Achieve precise control and consistent results with the E-Z Bond multi-wire retainer from Johns Dental.

E-Z Bond is a .0195 multi-strand wire retainer that has eliminated the guess work associated with bonded retainers and the good news is that it's compatible with your favorite composite. Multi-strand wire retainers play a valuable role as follow-up retention to active orthodontic therapy and they have clear advantages over removable retainers. Until recently, however, there was no completely satisfactory or standardized method for placing and bonding multi-strand wire retainers to the lingual surfaces of anterior teeth. E-Z Bond has solved this problem.

The usual method of placement was to position the retainer wire on the etched and dried tooth surface. An arbitrary quantity of composite was then applied for the bond. Neither the position of the retainer, nor the quantity of bonding material was accurately controlled. Prolonged finishing procedures were often necessary to remove excess composite or to add extra material to deficient areas. Consequently, the chair-side time and appearance of the retainer were often unpredictable. Not with E-Z Bond.

Taking the impression

Although the retainer will be bonded to the lingual surface of the anterior teeth, it is essential to include the incisal edges and a portion of the labial surfaces when taking the impression.

After thoroughly cleaning the teeth, the undercut areas gingival to the archwire should be generously blocked out with soft wax (Fig. 1) to prevent distortion when the impression is withdrawn. An impression with alginate (Fig. 2) - or any other impression material - should be taken and poured in hard stone (Fig. 3).



Clinical Procedures

After removing the fixed appliances, prepare the lingual surfaces to be bonded in the normal manner. Your favorite bonding material should be mixed and injected into the template perforations using a composite syringe (Fig. 4). The standardized perforations are guides to be used to insure that over or under filling will be avoided. The template should then be placed on the teeth and gentle pressure applied until the material is set (Fig. 5).

The template perforations permit any excess bonding material to harmlessly escape through the "escape channels" (Fig. 6) instead of being squeezed interdentally or gingivally (Fig. 7). It is very important that any overflow of the bonding material be removed with a large round burr before peeling back the plastic template (Fig. 8).

To remove the template simply place one hand over the template covering all of the teeth except for one cuspid and one lateral. With the other hand, the template or transfer tray should be carefully peeled back tooth by tooth.

The E-Z Bond Wire Retainer from Johns Dental will eliminate the guesswork associated with most bonded retainers.



Pioneers In Orthodontic Treatment

423 South 13th St.
Terre Haute, IN 47807
800/457-0504
Local: 812/232-6026
www.johndental.com

E-Z Bond™

The Multi-Strand Wire Retainer

Removal of the template will reveal a perfectly adapted lingual retainer attached to the teeth. You will see highly effective discrete studs of bonding material with uniform thickness and shape at the predetermined locations. You may easily round off any excess overflow of bonding material by using a round burr or any other suitable finishing stone (Fig. 9 & 10).

Summary

A standardized procedure has been described to achieve precision multi-strand wire retainer bonding. The flow of bonding material can be easily restricted to insure proper placement and to eliminate any periodontal complications. Standardization is achieved through the application of an indirect bonding technique that results in an accurate and elegant retainer requiring minimal chair time (Fig. 11 & 12).

Since the E-Z Bond lingual retainer can be placed immediately after brackets are removed, a very effective and efficient invisible retainer results with optimal patient cooperation.

Regular E-Z Bond retainers are 3x3, but longer versions are available for an additional charge.

For E-Z Bond or any other orthodontic related questions, call our Orthodontic Technical Support Team at 800/457-0504.

U.S. Patent No. 4,932,866



Pioneers In Orthodontic Treatment

423 South 13th St.
Terre Haute, IN 47807
Toll Free: 800/457-0504
Local: 812/232-6026
Fax: 812/234-4464
Website: www.johnsdental.com

This Technical Bulletin was created by Johns Dental. All contents are copyrighted. Any unauthorized duplication of its contents is prohibited. © Copyright 2006



Fig. 1 Block Out Undercuts

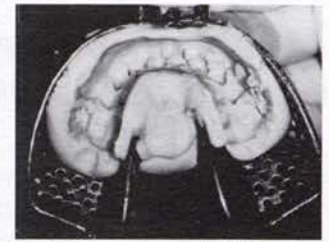


Fig. 2 Impression with Alginate



Fig. 3 Pour in Stone



Fig. 4 Inject Composite

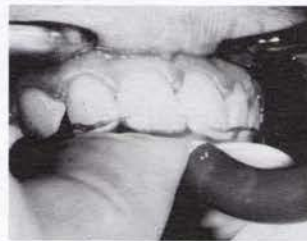


Fig. 5 Place Template to Cure

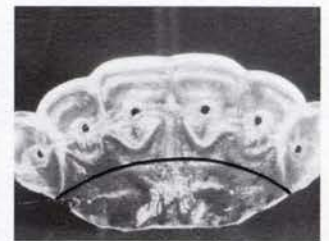


Fig. 6 Escape Channels

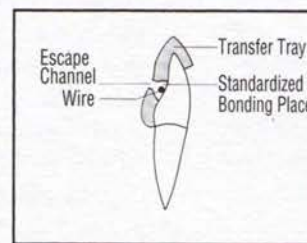


Fig. 7 Side View Escape Channel

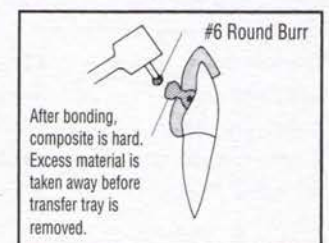


Fig. 8 Remove Overflow

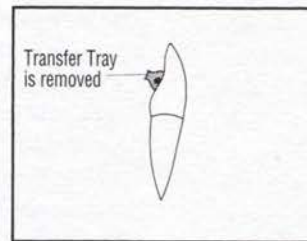


Fig. 9 Transfer Tray Removed

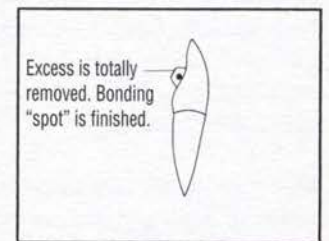


Fig. 10 Excess Removed

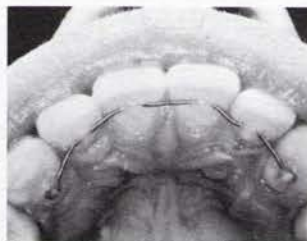


Fig. 11 Upper E-Z Bond Retainer



Fig. 12 Lower E-Z Bond Retainer