

Recommended IDB Protocol

The bonding appointment is critical to fusion treatment since custom wires are designed to work with the bracket positions captured in the scan after bonding. Follow this protocol to minimize bracket failures. At the end of the appointment, instruct the patient to avoid breakage (since an additional scan appointment could be required).

Instructions are included for both self-curing and light-curing adhesive.

1. PREPARE IDB KIT

Package contents:

- 3D printed malocclusion models – for your records
- IDB trays containing brackets (after IDB appointment, store trays in case needed for rebonding)
- If needed, kit includes container of brackets to be bonded directly (instructions included)
- Initial mushroom preformed archwires (1 set of .012" or .014" round wires)



2. PREPARE STATION: MATERIALS

- Dry Field System®, airflow, lamp
- CoJet® System and CoJet® sand (3M ESPE)
- Silane Coupling Agent (3M ESPE)
- Acetone
- Cotton balls
- Small spatula, scaler, dental floss
- Etchant such as Reliance Gel
- Tetric EvoFlow® (Ivoclar Vivadent AG)



Segment trays as needed to accommodate severe crowding.

TIP FOR NEXT PATIENT: You can request tray segmentation on your prescription form.

4. PREPARE PATIENT



4a. Clean teeth, apply Dryfield® system and dry.



4b. Insert trays to check fit and rehearse seating.



4c. Remove trays. Carefully clean all bracket bases with acetone using cotton ball (no plastic brushes).

4d. Dry the bracket bases.



4e. Using CoJet® Prep and CoJet® Sand, sanblast lingual tooth surfaces:

- 1 sec. per tooth on enamel
- 2-4 sec. per tooth on artificial surfaces such as plastic, metal, ceramic



4f. Rinse teeth to remove sand.

4. PREPARE PATIENT...CONTINUED



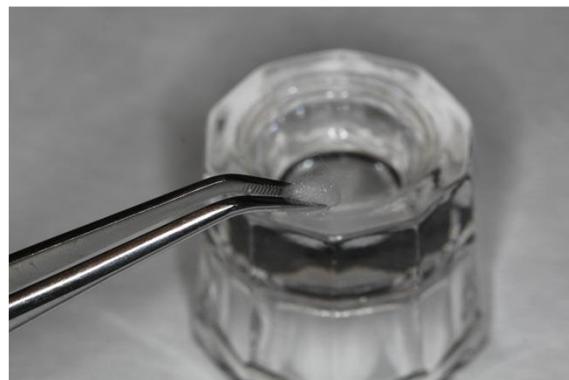
4g. Using a gel etchant, etch lingual tooth surfaces for 30 sec.



4h. Rinse teeth thoroughly to remove etching gel, and dry.



4i. Apply Silane® to condition all artificial lingual surfaces.



4j. Dry gently.

5. IDB WITH SELF-CURING ADHESIVE

If using a self-curing adhesive, follow these steps for each tray section.



5a. Prepare two brushes to apply resin.

5b Thoroughly mix Resin Part A and Resin Part B in a chilled dappen glass.

5c. Working at the same time and within 20 seconds, orthodontist use one brush to apply resin on prepared tooth surfaces; and, assistant use other brush to apply resin on the bracket bases. Do not over-apply.

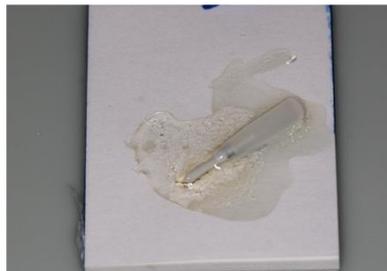
5d. When finished, wipe off brushes.



5e. Seat the transfer tray, applying gentle pressure along the entire section.



5f. Place the excess resin on the tray. Clean the dappen glass immediately.



5g. Watch the resin to determine when it is cured. It is set when the material has cooled and the color changed to gold.

OR

5. IDB WITH LIGHT-CURING ADHESIVE

If using a light-curing adhesive, follow these steps for each tray section.



5a. Apply a small amount of light-cure adhesive to each bracket base.



5b. Use a small spatula to spread it thinly to cover each base.



5c. Apply adhesive (such as Transbond) to the tooth surfaces, and air-dry gently.



5d. Light-cure the resin.

5. IDB WITH LIGHT-CURING ADHESIVE...CONTINUED

If using a light-curing adhesive, follow these steps for each tray section.



5e. Seat the transfer tray, applying gentle pressure along the entire section.



5f. Light cure each tooth for 30-45 sec.

6. REMOVE TRAY CAREFULLY

If using a light-curing adhesive, follow these steps for each tray section.



6a. Using a small spatula, remove the outer tray.



6b. Next, peel away the inner tray moving from labial to lingual.

7. REPEAT BONDING STEPS FOR ALL SECTIONS & STORE TRAYS

Repeat these steps for the opposing arch, and any tray sections you segmented.

NOTE: Store the trays in case of bracket breakage. To create a “jig” for rebonding, use a heavy gauge wire cutter to clip the section of the tray needed.

8. CLEAN/CHECK AFTER BONDING



Carefully remove excess resin with scaler, dental floss and/or ultrasonic handpiece. (Remember to check beneath the gingival bracket wings).



Check for crevices between custom composite bases and tooth surfaces. Fill them with flow composite (e.g. Tetric Flow®), if necessary.

9. SEQUENTIAL BONDING

If your fusion kit includes brackets packaged separately for direct bonding, check your instructions from the fusion expert doctor to determine if the brackets should be bonded now or at a later appointment.



Follow your own direct bonding protocol.

NOTE: Directly bonded brackets are captured in the scan taken after bonding, and positions are taken into account in the custom wire design.

10. ADD BITE STOPS/TURBOS

Add bite stops and/or turbos as needed.



11. PERFORM SCAN AFTER BONDING

After IDB and any sequential bonding is complete, the patient is ready for an intraoral scan to capture current tooth and bracket positions. (See the protocol specific to your suresmile-certified scanning technology for more details.)

During this scan, wires must be out and bracket doors must be closed.

12. INSERT THE WIRES FROM YOUR FUSION KIT

If you performed the intraoral scan to capture brackets, the doors will be closed. Open the bracket doors for wire insertion.

Insert the custom 0.012" or 0.014" round mushroom wires (provided in your fusion kit) into the brackets by pulling each wire with dental floss or pushing it with a small ligature director into the slots. The self-ligating doors must lock into place.



In cases with severe crowding or some brackets have not been bonded yet, use the "compressed wire" technique and leave some teeth or brackets out of the wire.

The initial alignment phase often causes the archwire to extend distally. To avoid wire ends that prick, shorten the wire so that it still can "grow" slightly in the slot of the last bracket or tube.

Questions?

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