



Crown Contour Technique

1. Place CROWN CONTOURS (CC) on teeth (4 in each arch and 2 in each quadrant), apply just like placing a plastic bracket. Use either light cure or chemical cure composite. **Instructions to follow.** PLACE CC ON MIDDLE 3RD OF CROWN. This will ensure proper adaptation of material over the CC. On molars place CC on mesial cusp.
 - a. Upper (for most appliances) - Place CC on the first molars and first bicuspids or deciduous first molars. If a blockout is used place on cuspids (sometimes laterals can be used if necessary).
 - b. Lower (for sagittal, transverse and lower Twin Block) - Place CC on cuspids and first bicuspids. Unless for a blockout Twin Block put on cuspids or lateral and first molars
2. When taking impressions place extra impression material around CC with finger. This prevents drag on the model at the CC.
3. When taking bite make sure there is room to include vacuum plastic matrix material and acrylic in the posterior.
4. Pour impression and send to lab with bite.

Bonding Instructions

1. **Clean the teeth with prophy paste (fluoride free), rinse and dry.** Follow normal procedure for keeping the bonding area dry.
2. **Permanent teeth:** Acid etch 30-60 seconds. (Important not to etch longer than 60 seconds on permanent teeth or it will decrease bond strength.) **Primary teeth:** Acid etch 120 seconds. (This longer etch on the primary teeth will increase the bonding strength.)
3. To place crown contour:
 - a. Point crown contour with plastic conditioner - let dry.
 - b. Acid etch tooth as previously mentioned.
 - c. Point etched area with sealant - let dry.
 - d. Paint CC with light cure sealant.
 - e. Place light bonding composite on crown contour.
 - f. Place crown contour on tooth, clean flash with scaler.
 - g. Apply Light Cure sealant over CC and cure with light.
 - h. Remove applicator stick from crown contour with Howe plier. Smooth with diamond bur.

Procedure If A Claspless Appliance Should Become Too Loose In The Mouth

1. Pumice the tooth and crown contour.
2. Isolate and dry the tooth and crown contour.
3. Add plastic conditioner to crown contour.
4. Apply light cure sealant.
5. Place a small amount of bonding composite over the crown contour.
6. Apply light cure sealant again, cure with light.

With the crown contours built up slightly, the appliance will fit very tightly.

Procedure To Rebond A Crown Contour Being Used With A Claspless Appliance

1. There usually is composite left on the tooth. Follow instructions for building up CC.
 2. If there is not any composite to determine proper location, pencil mark inside the appliance where crown contour depression is located
 3. Place the appliance on the teeth in the mouth. Look where pencil mark is in relation to the tooth.
 4. Remove appliance from teeth. Mark the tooth with a pencil where the crown contour should be positioned.
 5. Acid etch the teeth.
 6. See Crown Contour Placement Procedures.
- * If bond failure occurs use Reliance Enhance on CC.