



Clinical Considerations for Successful Bonding

An AAO TechSelect Guide



- 1** An accurate scan with an accurate occlusal registration. Initial photos and radiographs must match the uploaded scan. Inaccurate records effect the quality of the set up as well as the fabrication time and case delivery.
- 2** Watch for erupting teeth in children and adolescents. If the bonding date is too far from scan date, erupting teeth may affect the fit of the indirect bonding tray. Consider excluding erupting teeth for bonding tray. This is especially true in mixed dentition cases.
- 3** Watch for deciduous teeth that are loose or have become loose after the scan. Their position may have changed and can affect the fit of the tray.
- 4** Store trays in light safe and airtight containers. Many systems will arrive this way in your office.
- 5** Place adhesive or load 3M Flash-Free brackets prior to patient's appointment to maximize chairside efficiency.
- 6** Consider seating the tray in segments for ease of insertion and removal.
- 7** If delegating the bonding procedure, train your team to verify accurate placement of trays and standardization of protocol.

8 Consider your bonding adhesive selection and application process.

- a. Excessive resin can create flash around the bracket bases affecting oral hygiene. Excessive flash can also reduce the accuracy of bracket placement and reduce the effectiveness of a customized bracket system.
- b. Insufficient resin can result in voids around the bracket base and create oral hygiene issues. Insufficient flash can also reduce the accuracy of bracket placement and reduce the effectiveness of a customized bracket system.
- c. 3M Flash-Free bracket systems eliminate both the challenge of excessive and insufficient bonding adhesive.

9 Sufficient isolation is required to bond an arch or both arches simultaneously.

10 Your curing and procedure are very important for successful bonding.

- a. Test the intensity of your curing light. Consider a higher intensity light.
 - i. Tray material will absorb some of the light when curing through tray.
 - ii. Distances further from the curing light result in a decrease in intensity of the light at the bracket base.
- b. Standardize your curing technique among staff focusing on path of cure and duration.

11 Inform your patients prior to appointment what will be happening at the appointment as well as the benefits of Digital Indirect Bonding over the traditional direct bonding method.