

Bracket Composite

Instructions

Indications

- Light-curing single-component adhesive material for bonding of metal, ceramic and acrylic bracket

Checking the tooth surface

Check the enamel surface of the tooth to be bonded for any structural damages (fissures, lesions, or the like). Such predamages may lead to enamel fractures when debonding brackets. The patient must be informed accordingly prior to treatment.

Preparation

1. Cleaning enamel surface:
Clean enamel surface thoroughly with fluoride-free polishing paste and rinse with water. Dry with oil-free blown air and cotton rolls.
2. Application of etching gel to tooth surface
Apply etching gel with disposable brush to enamel and allow at least 30 seconds for it to take effect. Rinse thoroughly with water. Blow dry with oil-free air. The etched and dried enamel should have a chalky white appearance.
3. Application of bonding material (Bond LC)
Apply bonding material with a disposable brush evenly on the surface and blow with oil-free air to a thin layer. Cure surface approximately 15 seconds with halogen or LED lamp.
4. Preparation of bracket surface
To increase bonding strength bracket surfaces should be prepared according to instructions of the bracket manufacturer.

Metal brackets

Condition bracket surface by sand-blasting with aluminium oxide (50-110µm) in flat angle (approx. 45°) and a maximum of 2 bar. Then clean with oil-free compressed air.

Ceramic brackets

Etch bracket surface with phosphoric acid and silanize subsequently.

Acrylic brackets

Apply thin layer of bonding material to the bonding surface of the acrylic bracket and light-cure (see above).

5. Application of adhesive on bracket basis

Apply sufficient quantity of adhesive to the complete bonding surface of the bracket. Position the prepared bracket to the tooth and press lightly. Remove the left-over adhesive with a probe or scaler.

6. Light-curing

Metal brackets: Polymerize from incisal and apical side of metal bracket (approx. 20 sec. each side)

Ceramic / acrylic bracket: Polymerize through bracket with halogen or LED polymerization lamp (approx. 20 sec.)

7. Fluorodize enamel areas

After curing fluorodize enamel areas around the brackets.

8. Debonding

Debond according to instructions of bracket manufacturer.

Carefully remove remaining composites from enamel with a suitable instrument. Subsequently fluorodize teeth.

Remarks:

- Be careful when debonding the brackets in order not to harm the enamel
- Regularly check light intensity of polymerization lamp

Important Notice!

- If saliva comes into contact with the surface it might considerably affect the bonding strength.
- Avoid any kind of contact of the above mentioned products to soft tissue
- In case of a contamination immediately clean with alcohol and carefully rinse with water
- Avoid contact to eyes

Storage temperature: Max. 25°C