

Madrid, 7th of October 2015

CLINICAL REPORT FOR COMPOSITE TEST MATERIAL FOR HIGH Q BOND BRACKET (BJM LAB)

We have carried out the following clinical tests:

Extra-oral handling:

Average consistence similar to reference composite Transbond XT (Unitek 3M). It is easy to apply in the Bracket's base.

Intra-oral handling:

Immediate and late adhesion was evaluated in 20 patients.

Once the Bracket placed on the tooth it showed an adequate fluidity and the excess was easy to remove.

The adhesion technique used was the following:

1. Clean the tooth enamel with brush and non-fluorinated paste.
2. Orthophosphoric acid etching at 37% during 30 seconds.
3. Wash for at least 10 seconds.
4. Blow dry until the surface is clean and with a chalky-white colour in the enamel.
5. Apply transbond XT primer, uncured.
6. Place the Bracket with the "High Q Bond Bracket" adhesive in the base.
7. Light-cure with Bluephase lamp by Ivoclar during 10 seconds per side (20 seconds in total).

A traction test was carried out to check the immediate adhesion and the patient was controlled after one month to check the long term adhesion.

The adhesive behaved similar to Transbond XT (Unitek 3M).

There was no detachment in immediate adhesion, or after one month.

CLINICAL REPORT FOR TEST MATERIAL FOR HIGH Q BOND BAND (BJM LAB) CEMENT

Extra-oral handling:

Soft consistency, adequate fluidity.

Intra-oral handling:

It was used as bite block in posterior sectors to elevate the occlusion in 10 patients.

As it is a more fluid material, the handling with instruments is more difficult as it has to be placed in small increments that are cured for 10 seconds.

The adhesion technique was carried out as follows:

1. Clean the tooth enamel with brush and non-fluorinated paste.
2. Orthophosphoric acid etching at 37% during 30 seconds.
3. Wash for at least 10 seconds.
4. Blow dry until the surface is clean and with a chalky-white colour in the enamel.
5. Apply transbond XT primer, uncured.
6. Place the High Q Bond Band cement in the occlusal face of the posterior tooth.
7. Light-cure with the Bluephase lamp by Ivoclar during 20 seconds.

The immediate hardness and resistance to occlusion was tested, with adequate results. The patient was controlled after one month, showing neither detachment nor wear.

The tested materials meet the mechanic and adhesion properties. The clinical tests carried out resulted satisfactory.

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