SCHEU

IVOTAIN

BONDING INSTRUCTION

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QUALITY INSPECTION:
Always check the fitting accuracy of IVOTAIN on the supplied working model before insertion. It can also be helpful to use our enclosed positioning document.

1.

CLEANING

Then remove plaque with a polishing brush and finally polish with the rubber cup.

Tip:
The additional use of a sandblasting unit or AirFlow® improves the durability of the bonded joint.

2.

ETCHING, RINSING AND DRYING

Etch all affected teeth with 37 % phosphoric acid. Please note the general application time of the manufacturer! Rinse off the etching gel thoroughly after the specified application time.

3.

PRIMER

Please ensure that the lingual surfaces are kept dry during the bonding process. The use of DryField® or other aids for tongue shielding ensures perfect results.
Now apply the bonder (primer) to the lingual surfaces to be treated.
Please note the application time and curing time of the manufacturer!

4.

TRANSFERRING

Place the transfer cap together with IVOTAIN in the patient's mouth. Carefully guide the transfer cap over the cutting edges and check the general fit after application.

5.

BONDING AND LIGHT-CURING OF THE ANCHOR TEETH

Apply the composite to the anchoring teeth and mould them with a fine probe. The bonding surfaces should be wide and flat. In doing so, the layer thickness must never be less than 1 mm. Then harden the bonding surfaces with a UV lamp.

6.

REMOVING THE TRANSFER CAP

For perfect removal of the transfer tray, attach a suitable instrument so that the IVOTAIN is fixed (ligature adapter, Heidemann spatula or probe) while carefully removing the transfer cap.

7.

BONDING AND LIGHT-CURING OF THE REMAINING TEETH

Repeat Step 6 for the remaining teeth. Beware of and check if there are any potential early contacts in the upper jaw.

THE PERFECTLY FITTED IVOTAIN RETAINER!

Finally, and where necessary, use a probe to check whether the plastic has enclosed the retainer evenly everywhere. In addition, with OK retainers, you can check whether there are still contacts in the bonding surface and polish them away if necessary.

RECOMMENDED ADHESIVE MATERIAL:

RELIANCE L.C.R. LIGHT CURE RETAINER

To improve mechanical retention, better bond strength can be achieved with PEEK by treating the surface with 110 µm Al_2O_3 particles at a pressure of 0.2-0.35 MPa for 10-15 seconds. This treatment should only be carried out on the surfaces that will later be coated with composite in order to avoid unnecessary roughness on unbonded areas.

After the surface treatment, a composite primer should be applied, such as:

- ☑ Ambarino P60 Creamed (VOCO)
- ☑ Visio.link (Bredent)
- ☑ Z-Prime Plus (Bisco)

These primers are specially designed to improve the bond between PEEK surfaces and composites. The primer should be applied evenly and thinly to the prepared PEEK surface. The recommended soaking or drying time of the respective manufacturer must then be observed.

The following types of composites can then be used:

- ☑ dual-curing composites
- ☑ light-curing composites
- ☑ flowable composites

The choice of composite depends on the clinical situation and the specific requirements of the case.

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