

## VITA VIONIC® DENT DISC multiColor

# Recommended processing for removable restorations with substructures

Examples: Model casting/clasp dentures, bar-retained dentures, telescopic dentures, combination work, implant-supported full dentures, etc.

### **Recommendation for the design of substructures/secondary structures:**

Tip: An anatomically reduced shape without sharp edges provides structural support for the tooth elements made of VITA VIONIC DENT DISC multiColor.

Not recommended: Secondary structures without retention – they provide no mechanical support for the CAD/CAM-milled tooth elements made of VITA VIONIC DENT DISC multiColor.

The following VITA materials are required for the process:

- VITA VIONIC® DENT DISC multiColor
- VITA VM<sup>•</sup>LC PRIMER I & II
- VITA VM<sup>•</sup>LC OPAQUE PASTE
- VITA VM<sup>•</sup>CC

### **Recommendation for bonding the substructure or secondary structures with tooth elements made of VITA VIONIC® DENT DISC multiColor:**

Suitable for substructures and secondary structures made of chromium-cobalt alloy (CrCo, non-precious metal alloy), titanium alloy (Ti grade 5), zirconia (ZrO<sub>2</sub>) and polyetheretherketone (PEEK).

In all cases we recommend a maximum bonding gap of 150 µm.

For esthetic reasons, we recommend a minimum wall thickness of 1.5 mm for elements made of VITA VIONIC DENT DISC multiColor for restorations on metallic substructures or secondary structures.

### **Work steps:**

1) Roughen the bonding surfaces of the substructure or secondary structure and the tooth elements made of VITA VIONIC DENT DISC multiColor:

- Substructure or secondary structure: in accordance with the manufacturer's instructions for use.
- VITA VIONIC DENT DISC multiColor: corundum abrasive (Al<sub>2</sub>O<sub>3</sub>), 50 µm, 2 bar.

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Clean objects of any abrasive residue: Use oil and water-free compressed air. Avoid cleaning with water or steam. If cleaning has been done with water/steam, allow surfaces to dry thoroughly.

2) Apply VITA VM LC PRIMER I & II to the substructure or secondary structure according to the instructions for use. It is recommended that both primers are used together (application to VITA VIONIC DENT DISC multiColor is not necessary).

3) Apply VITA VM LC OPAQUE PASTE to the framework or secondary structure and light cure according to the instructions for use.

4) Bonding of the substructure or secondary structure and tooth elements made of VITA VIONIC DENT DISC multiColor is achieved using the powder/liquid cold-curing polymer VITA VM CC BASE DENTINE:

Tip: When bonding to a model, we recommend insulating the model against cold-curing polymer resin beforehand. Also block out the work so that no cold-curing polymer can penetrate between the primary and secondary structure.

Mix VITA VM CC BASE DENTINE according to the instructions for use. Apply to the bonding surfaces of the substructure or secondary structure and the tooth elements made of VITA VIONIC DENT DISC multiColor. Assemble the denture elements and remove any excess material. Polymerize the VITA VM CC BASE DENTINE according to the instructions for use.

5) Finishing the dentures.

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