

## Information for the Dentist.

### Pekkton® ivory: application, preparation and cementation.

(Extract from the instructions for use of Pekkton® ivory)

#### Indications

(Pekkton® ivory)

- Definitive supported, veneered and screw-retained crowns and bridges on dental implants, with maximum two pontics. Can be veneered with bonded press crowns, with composites or prefabricated acrylic teeth and veneers.
- Definitive supported, veneered single crowns and bridges with maximum one pontic on natural teeth.
- Unveneered parts e.g. crown margins and backings.
- Unveneered crowns and bridges in the side region for a maximum wearing period of 12 months.
- Removable restorations such as secondary constructions on bars and telescopic crowns, transversal connectors, occlusal splints and denture bases.

⚠ The responsibility for the use of custom-made products beyond the described indications lies with the dentist.

#### Contraindications

(Pekkton® ivory)

- When patients have a known allergy to one or more components of the material.
- Patients with parafunctions e.g. bruxism.
- Crowns and bridges with less than 1.3mm of occlusal space.
- When the minimum dimensions of the framework cannot be maintained:
  - Minimum circular wall thickness less than 0.6 mm.
  - Minimum occlusal wall thickness less than 0.8 mm.
  - Connector dimensions of front (anterior) bridges less than 12 mm<sup>2</sup>
  - Connector dimensions of side (posterior) bridges less than 14 mm<sup>2</sup>
- Bridge structures with more than two pontics or extensions.
- Bridges on natural teeth with more than one pontic or extension.
- Unveneered crowns in the lateral mouth area for use of more than 12 months.
- Unveneered crowns and bridges with a wearing period of more than 12 months.



BDT & Dr. Richard Anderson, Leeds, UK.



Zahnmanufaktur Zimmermann & Mäder, Bern, CH.



Laboratoire Cristou, Paris, FR.



Laboratoire Cristou, Paris, FR.



Laboratoire Cristou, Paris, FR.

## Preparation of crowns and bridges

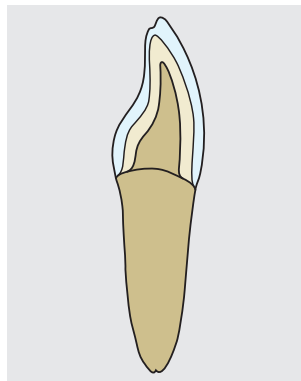
Principally, the preparation technology corresponds to the one of full ceramic reconstructions.

The preparation is based on the concept of reduced, anatomical form. A chamfer preparation in the angle of approx. 10–30° or a shoulder preparation with rounded inside edges is ideal. The width of the chamfer/shoulder is approx. 0.8 mm.

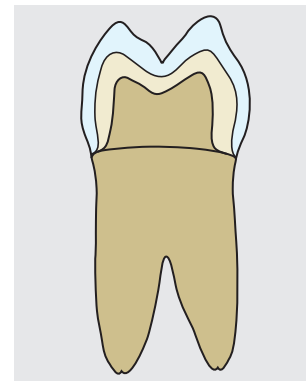
## Removable restorations

The long-term stability depends on the dimensioning of design of the prosthesis.

The cross section of a Pekkton® ivory framework stand against works in metal should be by a factor of 1.5 increased.



Preparation design of a anterior tooth



Preparation design of a molar

## Material thickness of the frameworks

Pekkton® ivory	Crown		Bridge	
	Anterior tooth	Posterior tooth	Anterior tooth	Posterior tooth
Design type	Tooth shape-supporting	Cusp supporting	Tooth shape-supporting	Cusp supporting
Minimum wall thickness circular	> 0.6 mm	> 0.6 mm	> 0.6 mm	> 0.6 mm
Minimum wall thickness occlusal	> 0.8 mm	> 0.8 mm	> 0.8 mm	> 0.8 mm
Connector dimensions	–	–	> 12 mm <sup>2</sup>	> 14 mm <sup>2</sup>

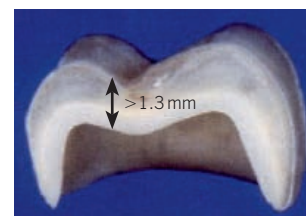
## Cementation

### Before cementation:

- 1) Check reconstruction for fit and correct by grinding, if necessary.
- 2) Occlusal precision corrections can be performed after cementation because composite veneering is very easy to polish in the patient's mouth.

### Preparation:

- 1) Sandblast the inner surface of the reconstruction with abrasive 110µm grit at a pressure of 2 bar.
- 2) To increase the bond of the temporary cement with Pekkton® ivory, silicize and silanize the inner surface of the restoration.
- 3) Pretreat inner surface with composite primer visio.link (Order No. 08000570) to increase the bond.



Minimal occlusal thickness

Please follow the manufacturer's instructions for the visio.link.

To increase the bond to Pekkton® ivory, the inner surface can be silicized before application of the composite primer and subsequently silanized.

### Cementation:

Method of cementation:	Conventional (glass ionomer cements)	Self-adhesive	Adhesive
Stump	Length of stump > 4 mm Preparation angle: 4–8°	Length of stump > 4 mm Preparation angle: 4–8°	short stump, < 4 mm Preparation angle: > 8°

Please follow the manufacturer's instructions.

**Advice:** Please note the detailed information in the instructions for use.