**VITA SUPRINITY® PC Quick Instruction Guide**

For processing VITA SUPRINITY PC, users require the CEREC or inLab software version ≥ V4.2. Users of a Sirona system that does not match this software version ≥ V4.2 should select lithium disilicate ceramic from the material menu to perform processing.

<table>
<thead>
<tr>
<th>Minimum layer thicknesses</th>
<th>Inlay / Onlay</th>
<th>Veneer</th>
<th>Anterior crowns</th>
<th>Posterior crowns</th>
</tr>
</thead>
<tbody>
<tr>
<td>Staining technique – incisal/occlusal</td>
<td>1,0</td>
<td>0,7</td>
<td>1,5</td>
<td>1,5</td>
</tr>
<tr>
<td>Staining technique – circumferential</td>
<td>1,0</td>
<td>0,6</td>
<td>1,2</td>
<td>1,5</td>
</tr>
<tr>
<td>Cut-back technique – incisal/occlusal</td>
<td>-</td>
<td>0,4</td>
<td>0,8</td>
<td>1,3</td>
</tr>
<tr>
<td>Cut-back technique – circumferential</td>
<td>-</td>
<td>0,6</td>
<td>1,2</td>
<td>1,3</td>
</tr>
</tbody>
</table>

All values in mm

### Material selection/Preparation and design suitable for ceramics

- The HT variation of VITA SUPRINITY PC is recommended for inlay/onlay restorations and veneers and the T variation for crowns.
- The principles of design suitable for all-ceramic restorations apply to VITA SUPRINITY PC, such as:
  - Transforming tensile stress into compressive stress by ensuring convex cavity bottom design.
  - Moreover, sharp edges must be avoided and round surfaces should be prepared.
  - Finally, continuous changes in the cross-section and a simple design should be achieved.

*Detailed information can be found in “Clinical Aspects”, No.1696; www.vita-zahnfabrik.com

### Reworking/Pretreatment

- Use only fine-grit diamond abrasive tools for contouring after the CAM process and finishing diamonds for prepolishing.
- Prior to crystallization, the restorations must be cleaned with the steam jet and/or in the ultrasonic bath.
- The restorations **must not** be sandblasted with Al₂O₃ or abrasive beads.

### Firing/Crystallization

- The restorations can be crystallized in any standard vacuum furnace that supports slow cooling.
- Honeycomb firing trays and platinum pins are perfectly suitable for firing. If they are used, an auxiliary firing paste is not required.
- Other firing trays may also be used but direct contact with the firing tray must be avoided and an auxiliary firing paste is required.

**VITA – perfect match.**

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Information concerning individual firing trays: only small quantities of paste should be applied to the pin for fixation of the restoration.

When using fibrous pads, the temperature may vary from the reference value given (depending on the furnace that is used) and needs to be adjusted accordingly.

Combination firing (= crystallization and combination of glaze/stains firing) is carried out at 840 °C.

Additionally, crystallization (840 °C) can also be carried out in a first step and glaze/stains firing (800 °C) in a second step.

### Crystallization firing in the VITA VACUMAT

<table>
<thead>
<tr>
<th>Predry. °C</th>
<th>400</th>
<th>800</th>
<th>55</th>
<th>840</th>
<th>8.00</th>
<th>8.00</th>
<th>680</th>
</tr>
</thead>
</table>

* The firing chamber must not be opened during long-term cooling.

### Characterization with VITA AKZENT Plus*2

- First coat the entire restoration with glaze material and then apply thin, transparent layers of effect and body materials.

- Then place the characterized restoration on the firing tray and crystallize (= in case of staining - before crystallization) or carry out stains firing (= in case of staining - after crystallization).

### Individualization with VITA VM 11*2

- Cut-back can be performed using software or manually using fine-grit diamonds. Then the restoration is carefully cleaned with the steam jet.

- After crystallization, the crown is coated with VITA VM 11 materials (DENTINE/CREATIVE Kit).

- Firing is carried out at 800 °C in the vacuum furnace (first dentine firing).

* For detailed information about the firing temperatures, please refer to the VITA SUPRINITY PC Working Instructions, No. 1951, from version V04.

### Reworking/Polishing

- Ideally, the restoration is polished using the instruments of the VITA SUPRINITY Polishing Sets (technical or clinical).

- It is mandatory to avoid generation of heat during prepolishing and high-gloss polishing.

- Reduced and uniform pressure must also be ensured.

### Final result/Bonding

- The final restoration is adhesively or self-adhesively (recommended for crowns only) bonded.

- Dual-curing materials (light and chemical curing) are mainly recommended for restorations with thick walls and light curing materials for restorations with thin walls.

- Pretreatment is carried out using hydrofluoric acid gel (20 sec., e.g. with VITA ADIVA CERA-ETCH) and silane (e.g. VITA ADIVA C-PRIME).