VITA Machinable Polymers

VITA CAD-Waxx for inLab®

Acrylate polymer blocks which burn out without any residue for the casting technique

Working Instructions

Date of issue: 01-07

The material and its advantages

VITA CAD-Waxx blocks can be used instead of modelling wax and consist of a filler-free acrylate polymer. They provide the following characteristics and advantages:

- High torsional resistance and dimensional accuracy even for large-span restorations compared to modelling wax
- Optimal thickness of walls and connectors for VMK frameworks; hence reduced amount of reworking is required
- No new model required for faulty castings; only the grinding process must be repeated
- Ground mouldings can be combined with casting wax or prefabricated patterns used in the casting technique
- Ground mouldings can be tried in situ
- Transparent color allows simple check of fit
- Can be ground with the diamond instruments of the inLab system of Sirona
- Burns out without residue
- Process optimization in the laboratory: working time is transferred into waiting time

VITA CAD-Waxx for inLab®/Indication table

Indication	Primary crown	Crown framework	Crown framework	Cast crown	Cast crown	Bridge framework	Bridge framework	Cast bridge
VITA CAD-Waxx for inLab	•	•	•	•	•	•	•	•

• recommended

- VITA CAD-Waxx is not recommended for temporary restorations and may not be cemented intraorally.

If used as a substitute for modelling wax:

- In conjunction with the inLab system of Sirona Dental Systems GmbH VITA CAD-Waxx serves for milling castings suitable for investing and can be used for
  - the fabrication of primary crowns for telescopic restorations
  - the fabrication of crown and bridge frameworks for the VMK technique
  - cast restorations
  - the press ceramic technique

If used for try-in to check structures:

- Possibility of checking the fit of the structure in the mouth before fabricating the restoration using the final material.

Simple processing – step by step

⚠ ***Important information:***

The CAD-Waxx Starter Kit from Sirona is required for processing VITA CAD-Waxx. This set (Prod. No. 6094713) can be purchased from selected dental dealers and includes a modified tank with a reinforced filter system. Ground polymer particles may cause clogging of the cooling and lubrication circulation system if the standard tank with the simple filter system is used.

VITA CAD-Waxx can be milled from version V 2.7 of Sirona's inLab 3D software.

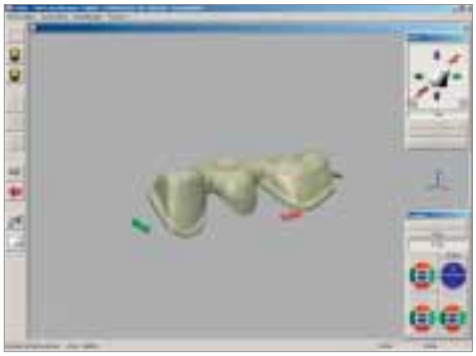
When filling the tank, a reduced quantity of 5 ml of DENTATEC liquid can be added for grinding VITA CAD-Waxx blocks.

Place the model made from plaster suitable for scanning on the scan holder of the inEos system and carry out the scan process.*

* To ensure perfect and economic processing, we recommend to carry out the scan process using the inEos system. The extremely short scanning times between 10 sec (single tooth scan) and 30 sec (bridges with 3-4 units) guarantee faster and trouble-free workflow. Additionally, the fabrication of a duplicate model is no longer required.

Optical impression.

Click VITA CAD-Waxx in the material selection menu.



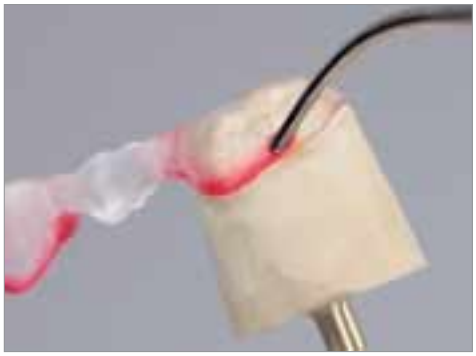
Designing (CAD) the moulding using the inLab 3D software.

Clamp in and mill VITA CAD-Waxx block CW-40. The inLab 3D software automatically calculates the minimum layer thicknesses and connector surfaces required to obtain a reliable result for the final restoration.

After milling (CAM) the lug is cut off using a fine cross-cut tungsten carbide bur (red ring).

Ground moulding on the working model.

The more thickly milled edges are reduced using a cross-cut tungsten carbide bur (red ring). When processing fully anatomical mouldings, the occlusion must be checked.



If desired, the ground edges of the moulding can be optimized using casting wax.

Moulding on the working model after optimization with casting wax.

Just like in the casting or press technique, wax sprues are attached to the moulding and waxed on the sprue former. The instructions of the alloy manufacturers or press ceramic manufacturers must be observed.

Invest the casting in accordance with the instructions of the investment material manufacturers and place it into the preheating furnace.

⚠ ***Important information:***
Do not place the casting ring into the hot preheating furnace (speed method) since VITA CAD-Waxx will expand and cracks may be formed in the investment material.

⚠ ***Important information:***
Specific weight of VITA CAD-Waxx: 1.18 g/cm³

The alloy quantity (in g) required for the restoration is calculated by multiplying the density of the alloy with the weight of the milled CAD-Waxx moulding (in g), divided by the factor 1.18.

Cast bridge framework made from a dental alloy ready for veneering.

Recommended tools and materials

- Fine and coarse cross-cut tungsten carbide burs
- Customary modelling waxes
- Customary investment materials

VITA CAD-Waxx for inLab® – Package sizes

VITA CAD-Waxx for inLab®
Standard package

Prod. No.
ECCW402

Dimensions: 14 x 15 x 40 mm
Designation: CW-40

Package cont. 2 pieces

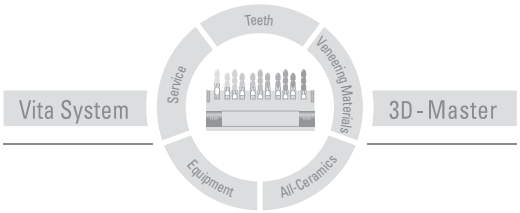
VITA CAD-Waxx for inLab®
Large package

ECCW4010

Dimensions: 14 x 15 x 40 mm
Designation: CW-40

Package cont. 10 pieces

With the unique VITA SYSTEM 3D-MASTER
all natural tooth shades are systematically determined
and completely reproduced.



Please note: Our products should be used according to the working instructions. We cannot be held liable for damages resulting from incorrect handling or usage. The user is furthermore obliged to check the product before use with regard to its suitability for the intended area of applications. We cannot accept any liability if the product is used in conjunction with porcelains and equipment from other manufacturers which are not compatible or not authorized for use with our product. Furthermore, our liability for the correctness of this information is independent of the legal ground and, in as far as legally permissible, is limited to the invoiced value of the goods supplied excluding turnover tax. In particular, as far as legally permissible, we do not assume any liability for profit loss, for indirect damages, for consequential damages or for claims of third parties against the purchaser. Claims for damages based on fault liability (culpa in contrahendo, breach of contract, unlawful acts, etc.) can only be made in the case of intent or gross negligence. The VITA Modulbox is not necessarily a component of the product.
Date of issue of these working instructions: 01-07

VITA Zahnfabrik has been certified according to the Medical Device Directive and the following product bears the CE mark CE 0124:

VITA CAD-Waxx for inLab®

VITA

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