

VITA VMK Master®

Quickstart Working Instructions



For full veneering of metal frameworks in the conventional CTE range (13.8 – 15.2).

VITA – perfect match.

VITA

> Facts & Features

VITA VMK Master® is:

- a natural feldspar veneering ceramic for full veneering of metal substructures in the conventional CTE range (13.8 - 15.2).

With VITA VMK Master® you will benefit from:

- precise and safe processing
- top processing features, including very good modeling properties
- simple handling and minimum shrinkage behavior
- Highly esthetic restorations, thanks to brilliant colors

SYSTEM COMPONENTS



VITA AKZENT Plus

VITA INTERNO

>1. Preparatory steps

▶ OPAQUE firing



1



2

💡 Processing information:

Application of OPAQUE

- mix powder opaque with OPAQUE FLUID to obtain a creamy consistency.
- apply with a brush or a glass instrument to mask the surface of the veneer
- if required, repeat the procedure for a second firing so that the substructure is completely coated

⚠ Please note:

- carry out WASH OPAQUE or VITA NP BOND firing, especially with non-precious metal, milling and sintering alloys to achieve enhanced bonding
- more information is available at www.vita-zahnfabrik.com

📄 Recommended firing – OPAQUE firing:

	Predry. °C	→ min.	↗ min.	↗ °C/min.	Temp. approx. °C	→ min.	VAC min.
Paste	500	6.00	5.38	80	950	1.00	5.38
Powder	500	2.00	5.38	80	950	1.00	5.38

> 2. DENTINE layering

▶ Layering of DENTINE



💡 Processing information:

DENTINE layering

- if limited space is available, apply OPAQUE DENTINE to the base surfaces and to the cervical area of the pontic
- build up the complete tooth shape in DENTINE, starting from the mesial and distal ridges
- to obtain sufficient space for the enamel, the DENTINE is reduced in the upper third

⚠ Please note:

- frequently, cuspids do not provide sufficient space for dentine and enamel materials
- in such cases, a thin layer of OPAQUE DENTINE is applied to ensure that the correct shade is maintained, particularly for layer thicknesses below 0.8 mm

> 3. ENAMEL layering

Layering of ENAMEL



Processing information:

ENAMEL layering

- ENAMEL is applied to complete the crown shape
- to compensate firing shrinkage, the crown must have a slightly larger size
- Using a slightly moist separating knife, the individual bridge units are separated in the interproximal areas down to the opaque, prior to the first dentine firing

! Please note:

- after removing the bridge from the model, the contact points need to be completed using DENTINE and ENAMEL
- then the bridge is placed on a firing tray for the subsequent firing process

🔧 Recommended firing – first dentine firing

Predry. °C	→ min.	↗ min.	↗ °C/min.	Temp. approx. °C	→ min.	VAC min.
500	6.00	7.49	55	930	1.00	7.49

> 4. Finalization

▶ Glaze firing with VITA AKZENT Plus



1



2



3

💡 Processing information:

Finalization

- if required, the entire restoration can be coated with VITA AKZENT Plus GLAZE
- VITA AKZENT Plus stains are available to create shade nuances and individual characteristics

⚠ Please note:

- Before processing further, grinding particles must be removed from the restoration using a toothbrush under running water or with the steam jet!

📄 Recommended firing – Glaze firing with VITA AKZENT Plus

Predry. °C	→ min.	↗ min.	↗ °C/min.	Temp. approx. °C	→ min.	VAC min.
500	4.00	5.15	80	920	1.00	–

> Layering technique

▶ Example of standard layering

OPAQUE firing



1

DENTINE layering



2

ENAMEL layering



3

Result after first dentine firing



3a

optional adjustment of the shape after first dentine firing



Finalization



4

3b

Result after second dentine firing



Final result



> Hotline and support



We are here to help

▶ **Technical Hotline**

If you have technical questions regarding VITA product solutions, please contact our technical consultants Mr. Ralf Mehlin and Mr. Daniel Schneider.

Phone +49 (0) 7761/56 22 22

Fax +49 (0) 7761/56 24 46

8 am to 5 pm CET

e-mail info@vita-zahnfabrik.com

**Additional international contact information can be found at
www.vita-zahnfabrik.com/contacts**

▶ **Online support**

Questions about processing and product solutions? You can find competent answers online in the form of FAQs, videos and electronic tutorials.

More detailed information can also be found in the comprehensive VITA VMK Master Working Instructions.

www.vita-zahnfabrik.com

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