VITA CAD/CAM MATERIALS

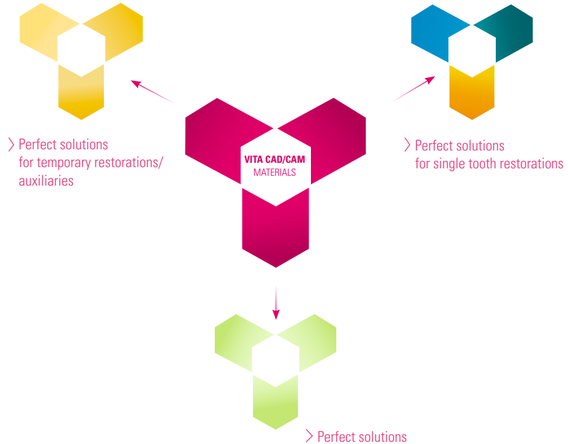
› For top-quality solutions. Proven a million times over.

You rely on proven and highly esthetic materials and put the emphasis on simple processing

You wish for innovative, minimally invasive and efficient material solutions

Reliability is a key factor for you and therefore you want to process high-strength materials.

You want to have simple solutions that are efficient and save time



› Perfect solutions for temporary restorations/ auxiliaries

› Perfect solutions for single tooth restorations

› Perfect solutions for substructures/ fully anatomical bridges

VITA is the pioneer in the field of dental CAD/CAM materials for practices and laboratories. VITA has been offering top-quality material solutions for a wide range of indications since 1985. In addition to materials for temporary restorations, VITA's product range also includes highly esthetic products for single tooth restorations and materials for substructures and fully anatomical bridge restorations. Today users in practices and laboratories benefit from numerous proven solutions and trendsetting, innovative materials.

More information about **VITA CAD/CAM** materials is available at www.vita-zahnfabrik.com

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 application. We cannot accept any liability if the product is used in conjunction with materials and equipment from other manufacturers that 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, insofar 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 (fault in making the contract, breach of contract, unlawful acts, etc.) can only be made in the case of intent or gross negligence. The VITA Module Box is not necessarily a component of the product. Date of issue of this product information: 03.14

After the publication of these working instructions any previous versions become obsolete.

VITA Zahnfabrik has been certified in accordance with the Medical Device Directive and the following products bear the mark CE 0124:

VITABLOCS®, VITA ENAMIC, VITA SUPRINITY®, VITA**VM**®**3,** VITA**VM**®**11,** VITAVM®LC, VITA AKZENT® **Plus**

Innovation MediTech GmbH has been certified in accordance with the Medical Device Directive and the following products bear the CE mark:
CE 0044 **VITA ENAMIC® STAINS**

Sirona CEREC® and inLab® systems (Sirona), KaVo ARCTICA® and KaVo Everest® (KaVo) and Ceramill® Motion 2 (AmannGirrbach) are registered trademarks of the companies mentioned.

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VITA

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VITA CAD/CAM MATERIALS – **PERFECT SOLUTIONS FOR SINGLE TOOTH RESTORATIONS**

Quick Guide for Practices and Laboratories

Date of issue: 03.14

VITA shade, VITA made. VITA

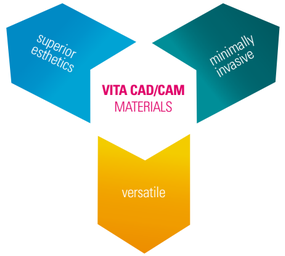
VITA CAD/CAM MATERIALS – for top-quality solutions. Proven a million times over.

Choose from the variety of ceramic solutions

› Materials for highly esthetic, minimally invasive and/or high strength single tooth restorations.

VITABLOCS®
Mark II
TriLuxe
TriLuxe forte
RealLife®

VITA ENAMIC®



VITA SUPRINITY®
VITA SUPRINITY®FC

VITA CAD/CAM MATERIALS – **Perfect solutions for single tooth restorations**

The esthetic, tooth-colored VITA CAD/CAM materials have been used to fabricate more than 20 million single tooth restorations for more than 25 years. Today practices and laboratories can select the perfect material solution for various single tooth indications from a range of highly esthetic feldspar ceramics, high-strength glass ceramic and innovative hybrid ceramics. Moreover, these CAD/CAM ceramics are distinguished by simple and efficient processing.

We will be glad to help

› More information about the products and processing is also available at **www.vita-zahnfabrik.com**

Sales Support Hotline
Tel. +49 - 7761 / 56 28 84,
Fax +49 - 7761 / 56 22 99
8 a.m. to 5 p.m.

Mr. Udo Wolfner and his team (Internal Sales Department) will be glad to assist you when recording orders or if you have questions about the delivery, product data and advertising media.

Technical Hotline
Tel. +49 - 7761 / 56 22 22,
Fax +49 - 7761 / 56 24 46
8 a.m. to 5 p.m.

If you have technical questions concerning the VITA CAD/CAM product solutions, you can contact our technical specialists Mr. Ralf Mehlin or Mrs. Margrit Möller.

Mail contact
You can email your questions and requests to info@vita-zahnfabrik.com!

Small esthetic reconstructions

Example

Feldspar ceramic
1-step material

VITABLOCS® Mark II
- **proven a million times over**
- **simple and fast processing**
- **excellent integration of the shade**

Highly esthetic reconstructions in the visible region

Example

Feldspar ceramic
1-step material

VITABLOCS® TriLuxe / TriLuxe forte / RealLife®
- **proven 2nd generation VITABLOCS**
- **shade gradient ensures superior esthetics**
- **ideal for highly individual, esthetic restorations**

Minimally invasive restorations and posterior crowns

Example

Hybrid ceramic
1-step material

VITA ENAMIC®
- **hybrid ceramic which absorbs occlusal forces**
- **ideal for minimally invasive restorations**
- **enables high-precision results and efficient CAD/CAM fabrication**

High-strength material with wide indication range

Example

Glass ceramic precrystallized
2-step material

VITA SUPRINITY®
- **high reliability thanks to enormous strength**
- **versatile use thanks to wide indication range**
- **optimized edge stability compared to lithium disilicate**

Simple, small and esthetic reconstructions

Example

Glass ceramic fully crystallized
1-step material

VITA SUPRINITY®FC
- **simple processing**
- **fast solutions**
- **highly esthetic restorations**

VITABLOCS®

VITA ENAMIC®

VITA SUPRINITY®

VITABLOCS®
Mark II

Class of materials: Feldspar ceramic/monochromatic

Particularly recommended for which indications?*

For small, esthetic reconstructions:
- Inlay
- Onlay
- Partial crown

How many process steps?

1-step material:
Milling, polishing and fitting;
firing not required but possible

Which advantages?

- Proven a million times over
- More than 25 years of clinical experience
- Excellent integration of the shade thanks to chameleon effect
- Fast and simple processing since seating is enabled after milling and polishing
- Highly individual: Individualization with VITA VM 9 is possible

What can be used to adjust and modify the shade?

Characterization with VITA AKZENT Plus

Individualization with VITA VM 9

*) Note: These are recommended indications; of course, the entire range of single tooth restorations can normally be fabricated. For details, please refer to the respective working instructions of the products.

› more product data

VITABLOCS®

Mark II

Class of materials: Feldspar ceramic/monochromatic

Available in which shades?

Available in 10 VITA SYSTEM 3D-MASTER shades: 0M1C (bleached shade for I12, I14), 1M1C, 1M2C, 2M1C, 2M2C, 2M3C, 3M1C, 3M2C, 3M3C and 4M2C and in 3 VITA classical shades: A1C, A2C and A3C.

In which geometries?

- I8 (8 x 8 x 15 mm)
- I10 (8 x 10 x 15 mm)
- I12 (10 x 12 x 15 mm)
- I14 (12 x 14 x 18 mm)
- I-40/19 (15.5 x 19 x 39 mm)*

Which systems can be used for processing?

Sirona's CEREC/CEREC MC XL and inLab inLab MC XL systems.
Moreover VITABLOCS Mark II can also be processed with the KaVo ARCTICA**, KaVo Everest** and Ceramill Motion 2** systems.

*) This geometry is only available in the 4 VITA SYSTEM 3D-MASTER shades 1M1C, 1M2C, 2M2C und 3M2C.
**) The range of shades and geometries for the system(s) indicated above may be different.

VITABLOCS®

TriLuxe 3 layers of different shade intensity
TriLuxe forte 4 layers of different shade intensity
RealLife® dentine core and enamel coat

Class of materials: Feldspar ceramic/multichromatic

Particularly recommended for which indications?*

For highly esthetic reconstructions in the visible region:
- Anterior crown
- Veneer

How many process steps?

1-step material:
Milling, polishing and seating; firing not required but possible

Which advantages?

- Proven a million times over
- Highly esthetic since shade gradient is integrated in the blank
- Fast and simple processing since seating is enabled after milling and polishing
- Highly individual: Individualization with VITA VM 9 is possible

What can be used to adjust and modify the shade?

Characterization with VITA AKZENT Plus

Individualization with VITA VM 9

*) Note: These are recommended indications; of course, the entire range of single tooth restorations can normally be fabricated. For details, please refer to the respective working instructions of the products.

› more product data

VITABLOCS®

- **TriLuxe** 3 layers of different shade intensity
- **TriLuxe forte** 4 layers of different shade intensity
- **RealLife®** dentine core and enamel coat

Class of materials: Feldspar ceramic/multichromatic

Available in which shades?

VITABLOCS® TriLuxe-/TriLuxe forte are available in the VITA SYSTEM 3D-MASTER shades 1M2C, 2M2C and 3M2C and in the VITA classical shades A1C, A2C and A3C.

VITABLOCS RealLife® are available in the VITA SYSTEM 3D-MASTER Farben 0M1C, 1M2C, 2M1C, 2M2C, 2M3C and 3M2C.

In which geometries?

VITABLOCS® TriLuxe-/TriLuxe forte
- TRI-12 / TF-12 (10 x 12 x 15 mm)
- TRI-14 / TF-14 (12 x 14 x 18 mm)
- TRI-14/14 / TF-14/14 (14 x 14 x 18 mm)*
- TF-40/19 (15.5 x 19 x 39 mm)*

VITABLOCS RealLife®
- RL-14/14 (14 x 14 x 18 mm)

Which systems can be used for processing?

VITABLOCS® TriLuxe-/TriLuxe forte can be processed with the CEREC /CEREC MC XL and inLab/inLab MC XL systems. Moreover VITABLOCS TriLuxe/TriLuxe forte can also be processed with the KaVo ARCTICA** and Ceramill Motion 2** systems.

VITABLOCS RealLife® can be processed with Sirona's CEREC MC XL and inLab MC XL systems.
Additionally, VITABLOCS RealLife can also be processed using the KaVo ARCTICA** system.

*) These geometries are only available in VITA SYSTEM 3D-MASTER shades
**) The range of shades and geometries for the system(s) indicated above may be different.

VITA ENAMIC®

Class of materials: Hybrid ceramic/monochromatic

Particularly recommended for which indications?*

For minimally invasive reconstructions and posterior restorations:
- Reconstructions in cases of limited space-available
- Reconstructions of minor defects (e.g. cervical veneers, etc.)
- Non-prep veneers
- Tabletops
- Posterior and molar crowns

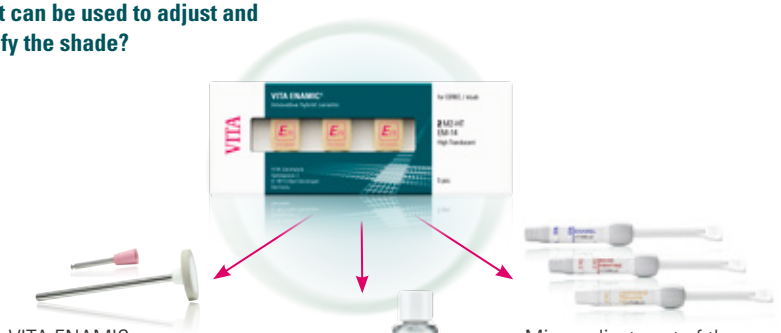
How many process steps?

1-step material:
Milling, polishing and seating; coating with stains if required; no firing!

Which advantages?

- Innovative hybrid ceramic which absorbs occlusal forces
- Enormous load capacity and elasticity
- Results with high precision
- Result with superior precision
- Efficient CAD/CAM fabrication
- Tooth-like properties

What can be used to adjust and modify the shade?



VITA ENAMIC polishing instruments

Characterization with VITA ENAMIC stains

Minor adjustment of the shape, e.g. with VITA VM LC

*) Note: These are recommended indications; of course, the entire range of single tooth restorations can normally be fabricated. For details, please refer to the respective working instructions of the products.

› more product data

VITA ENAMIC®

Class of materials: Hybrid ceramic/monochromatic

Available in which shades?

Available in the translucency levels HT (HT = High Translucent) and T (T = Translucent), in each case in the five VITA SYSTEM 3D-MASTER shades 0M1, 1M1, 1M2, 2M2 and 3M2.

In which geometries?

- EM-14 (12 x 14 x 18 mm)
- EM-10 (8 x 10 x 15 mm)*

Which systems can be used for processing?

VITA ENAMIC can be processed with the Sirona CEREC / inLab MC XL system using software version 4.0 or later.

Dental practices and laboratories with a Sirona milling unit that does not correspond to this system configuration should select VITABLOCS Mark II, I14 for processing.

VITA ENAMIC is processed with KaVo ARCTICA** using software version 2.5.7 or later. For KaVo Everest**, VITA ENAMIC is processed in combination with Everest CAM² software.

VITA ENAMIC is processed with Amann Girrbach's Ceramill Motion 2** system using software release Ceramill Mind version 2.1.6 (XP) version 2.3.1 (Win7) and Ceramill Match 2 version 2.1.2 (Win7) or later.

*) This geometry in only available in High Translucent.
**) The range of shades and geometries for the system(s) indicated above may be different.

VITA SUPRINITY®

Class of materials: Glass ceramic precrystallized/monochromatic

Particularly recommended for which indications?*

Various (esthetic) options and hence wide indication range:
- Posterior crown
- Anterior crown
- Implant crown
- Veneer

How many process steps?

2-step material:
Milling; afterwards crystallization or combination firing is required

Which advantages?

- High-strength, zirconia-reinforced glass ceramic provides reliability
- Optimized edge stability compared to lithium disilicate (Sirona's MC LX system)
- Esthetic: Translucency, opalescence and fluorescence are integrated
- Highly individual: Individualization with VITA VM 11 is possible

What can be used to adjust and modify the shade?

Characterization with VITA AKZENT Plus

VITA SUPRINITY polishing instruments

Individualization with VITA VM 11

*) Note: These are recommended indications; of course, the entire range of single tooth restorations can normally be fabricated. For details, please refer to the respective working instructions of the products.

› more product data

VITA SUPRINITY®

Class of materials: Glass ceramic precrystallized/monochromatic

Available in which shades?

Available in the translucency levels HT (HT = High Translucent) and T (T = Translucent), in each case in the shades 0M1, A1, A2, A3, A3.5, B2, C2 and D2.

In which geometries?

- LS-14 (18 x 14 x 12 mm)

Which systems can be used for processing?

VITA SUPRINITY can be processed with Sirona's CEREC or inLab MC XL systems, software version 4.2 or or later.

Practices or laboratories with a Sirona milling system with a different system configuration can alternatively select lithium disilicate ceramic in the material menu for processing.

VITA SUPRINITY® FC*

Class of materials: Glass ceramic fully crystallized/monochromatic

Particularly recommended for which indications?**

Simple, small and esthetic reconstructions:

- Inlay
- Onlay
- Partial crown

How many process steps?

1-step material:
Milling, polishing and seating;
firing not required but possible

Which advantages?

- Medium-strength glass ceramic for high reliability
- Efficient solution
- Fast and simple processing since seating is enabled after milling and polishing
- For esthetic reconstructions

What can be used to adjust and modify the shade?

Characterization with VITA AKZENT Plus

VITA SUPRINITY polishing instruments

Individualization with VITA VM 11

*) VITA SUPRINITY® FC will probably be available during the year 2014
**) Note: These are recommended indications; of course, the entire range of single tooth restorations can normally be fabricated. For details, please refer to the respective working instructions of the products.

› more product data

VITA SUPRINITY® FC

Class of materials: Glass ceramic fully crystallized/monochromatic

Available in which shades?

Available in the translucency levels HT (HT = High Translucent) and T (T = Translucent), in each case in the shades 0M1, A1, A2, A3, A3.5, B2, C2 and D2*.

In which geometries?

- LS-14 (18 x 14 x 12 mm)*

Which systems can be used for processing?

VITA SUPRINITY FC can be processed with Sirona's CEREC or inLab MC XL systems, software version 4.2 or higher.

Practices or laboratories with a Sirona milling system with a different system configuration can alternatively select lithium disilicate ceramic in the material menu for processing.

* Preliminary product specification: Final product details will be published during the market launch in 2014.

Shade taking

CAD/CAM-fabrication

Shade modification*

Firing*

Polishing

Bonding

Solutions and recommendations for the fabrication process

- Use **VITA Easyshade Advance 4.0** for digital shade taking and **VITA Linearguide 3D-MASTER** or **VITA classical A1-D4** , for example, for conventional shade taking.

- For CAD/CAM-fabrication, VITA offers you **highly esthetic feldspar ceramic, high-strength glass ceramic und innovative hybrid ceramic** materials – simply select the material solution that fulfills your individual requirements.

- Use the **VITA AKZENT Plus** stains and **VITA VM 9** or **VITA VM 11 veneering ceramics** for feldspar and glass ceramics. Use **VITA ENAMIC Stains** for the hybrid ceramic and the recommended bonding / veneering composites for adjustment of the shape.

- Glaze, stains and/or dentine and crystallization firing can be carried out with the **VITA VACUMAT 6000 M** premium furnace.
- Note: When using the VITA hybrid ceramic, firing must not be carried out.

- In the case of VITA feldspar ceramic, use polishing systems suitable for silicate ceramic (e. g. **VITA Karat diamond polishing set**).
- Ideally, the **VITA SUPRINITY/ VITA ENAMIC polishing instruments** are used for VITA glass and hybrid ceramics.

- **VITA DUO CEMENT** or a different bonding system recommended by VITA can be used for bonding VITA feldspar, glass and hybrid ceramics.

*) Note "Optional process steps"
The feldspar and hybrid ceramic materials can be seated directly after milling and polishing. Therefore the following process steps mentioned above are optional for feldspar ceramic. Basically, the same steps are required for the hybrid ceramic; in this case firing must not be carried out.

Recommended bonding systems

Information and recommendations by VITA

VITA's feldspar ceramics, glass ceramics and hybrid ceramics are etched using hydrofluoric acid gel and must be bonded adhesively with composites in order to achieve a friction bond between the restoration and the tooth substance.

Recommended dual-curing luting composites*:

- VITA DUO CEMENT (VITA)
- Clearfil Esthetic Cement (Kuraray)
- Vitique (DMG)
- NX3 (KerrHawe)
- Calibra (Dentsply)
- Variolink II (Ivoclar Vivadent)
- Multilink Automix (Ivoclar Vivadent)
- DuoCem (Coltene Whaledent)
- Bifix QM (Voco)
- RelyX Ultimate (3M Espe)
- RelyX Unicem (3M Espe)

Recommended light-curing luting composites*:

- Variolink Veneer (Ivoclar Vivadent)

*) Important information:
Dual-curing (light- and chemical-curing) luting composites are recommended primarily for thick and/or dark restorations and light-curing composites are recommended for thin restorations (especially for veneers). Self-adhesive luting composites, such as RelyX Unicem, may only be used for crown restorations when using feldspar, glass and hybrid ceramics from VITA. Generally the respective manufacturer's instructions must be observed.