

# VITAVM<sup>®</sup>LC

Newly defined possibilities



VITA shade determination

VITA shade communication

VITA shade reproduction

VITA shade control

Date of issue 05.19

VITA – perfect match.

**VITA**

Limitless – for all possibilities

Esthetic – for simply beautiful teeth

Individual – like life itself

Reliable – due to optimum characteristics

Versatile – but always the right choice

**Limitless – for all possibilities**



Limitless

**Welcome to the new dimension!**

Simple to use. Cost-effective and esthetic results. Versatile range of applications: The VITA VM LC product family meets all your expectations when it comes to a veneering composite for extraoral restorations.

Whether using a paste or flow material or an individual combination: you will always achieve brilliant results with the light-curing microparticle composite VITA VM LC. Very close to ceramic – and always part of a system. VITA VM LC is a high-quality system component of the innovative VITA VM concept – the universal solution for all common indications. Whether metal-ceramic, all-ceramic or composite: The possibilities are endless!



VITA VM LC



VITA VM LC flow

**Benefits at a glance**

- Two forms of processing for almost unlimited possibilities
- Perfectly matched with all indications
- Superb esthetics and excellent shade reproduction (original VITA shade formula)
- Outstanding material properties

**The choice is yours!**

VITA VM LC provides a clearly structured range of options for daily work – from the perfect consistency to the required indication. We give you freedom of choice!

**Consistencies**

The choice is yours: VITA VM LC paste or VITA VM LC flow. In addition to an almost unlimited variety of combinations. The VITA VM LC flow materials are distinguished by optimum handling and are the successful addition to the proven VITA VM LC pastes.

**Shade system**

The choice is yours: With the VITA SYSTEM 3D-MASTER shades and the VITA classical A1 – D4 shades, you have two proven shade systems at your disposal.



**Light-curing device**

The choice is yours: VITA VM LC can be reliably and completely polymerized in most commercially available light-curing devices\*.

**Bonding system**

The choice is yours: Almost all bonding systems or primers for the metal-composite bond are approved for use with VITA VM LC\*.

**Indication**

The choice is yours: VITA VM LC can be used for almost all indications and can be combined with most VITA materials\*.

\* Details can be found in the VITA VM LC working instructions and on our homepage [www.vita-zahnfabrik.com](http://www.vita-zahnfabrik.com)

**Esthetic – for simply beautiful teeth**



Esthetic

**Beautiful teeth are our mission**

When it comes to ceramics, we are virtually unsurpassed at VITA. VITA VM LC allows esthetic results that are almost indistinguishable from a real ceramic veneer!

And now that low-viscous and paste-like consistencies can also be combined with VITA VM LC, the paths to brilliant esthetics are more varied today than ever before. Fast, reliable, individual. This is the new choice!



*Barely distinguishable  
tooth 11 VITA VM LC, 21 - 22 VITA VM 13*

**Benefits at a glance**

- Excellent light-optical characteristics – due to the particularly homogenous distribution of the fine-grain inorganic filler that is very close to ceramic.
- Optimum adjustment of fluorescence and opalescence
- Utmost brilliance and translucency in accordance with natural teeth
- Convincing red/white esthetics



*Convincing red/white esthetics*



*Different degrees of translucency based on the following pattern (from left to right):  
CHROMA PLUS CP2, EFFECT ENAMEL EE2, ENAMEL LIGHT ENL, WINDOW WIN. Thickest point (top): 2.0 mm, thinnest point (bottom): 0.5 mm.*



**Individual – like life itself**

Individual

**You know best what you want!**

One product. Two forms of processing. A unlimited number of options. And suitable for almost all indications.

Thanks to their excellent handling with a brush or instrument, the VITA VM LC flow materials are ideally suited for individualization and intensivation on the tooth neck as well as for delicate and esthetic precision work in the incisal area. The VITA VM LC flow materials are abrasion-resistant and can be optimally used on the surface.

Whether anterior or posterior tooth restoration: VITA VM LC is just as individual as the wishes of its users. One thing is the same for every problem: The desire for an optimum result. We are pleased to give you the opportunity to achieve this.



The low-viscous VITA VM LC flow materials (left) are the successful addition to the proven VITA VM LC pastes (right).

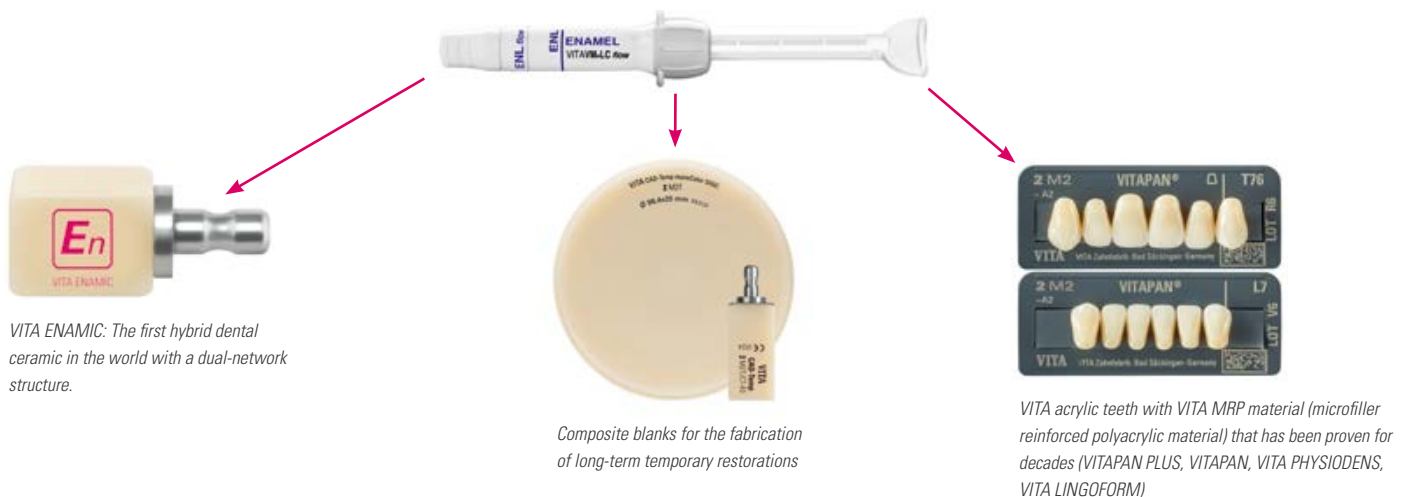


VITA VM LC inlay, copyright: ZTM Jürgen Freitag, Bad Homburg

**Can be perfectly used for almost all indications**

- Full / partial veneering of crowns / bridges / telescopes / implant superstructures
- Reconstructions of gingival portions, e.g. implant restorations
- Inlays / veneers
- Layering over of VITA CAD-Temp
- Individualization of VITA acrylic teeth
- Veneering / individualization of VITA ENAMIC restorations
- Veneering of removable and partly removable dental prostheses made of polyether ether ketone (PEEK)\*

\* Details can be found in the VITA VM LC working Instructions and on our homepage [www.vita-zahnfabrik.com](http://www.vita-zahnfabrik.com)



**Reliable – due to optimum characteristics**








**Which you can rely on!**

We know what you expect of a composite. With VITA VM LC we have developed a product that meets all your requirements – shade-stable with low plaque affinity and optimum to process.

The outcome: Results that you can count on. Reliably!

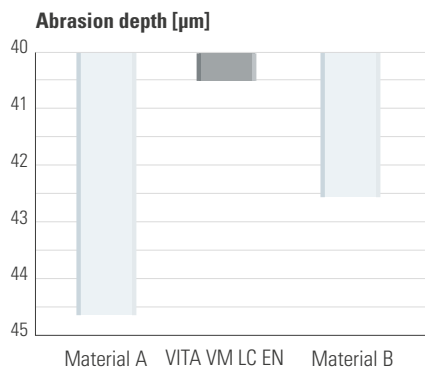


Network structure of VITA VM LC

-  Prepolymer, swollen by monomer and integrated into the network
-  cross-linked monomer
-  Inorganic microparticle filler, surface functionalized, integrated into polymer network

**Benefits at a glance**

- Light, individual and for controlled modelling
- High material strength, reliable bonding and first-class surface quality
- Outstanding polishability and reduced material shrinkage due to a highly cross-linked matrix with the use of a special polymer
- Scientifically proven abrasion strength\*
- Especially shade-stable and low plaque affinity
- High surface density, minimum water absorption and low surface roughness
- Reliable shade-taking procedure and reproduction



Abrasion depth according to wear simulation (VITA diagram; data adopted from QZ 2010;36(8):1074-1082).

An abrasion simulation study\* of resin veneering materials shows that VITA VM LC Enamel features high abrasion strength in comparison to competitors' products.

\*Quintessenz Zahntechnik 2010;36(8):1074-1082

Product	Flexural strength MPa**	Modulus of elasticity MPa	Inorganic filler content weight %
VITA VM LC EN Paste	approx. 110	approx. 4500	41 – 52
VITA VM LC flow	approx. 130	approx. 7000	55 – 68

\*\* Measured acc. to DIN EN ISO 10477

**Versatile – but always the right choice**



### A systematic range

From PRE OPAQUE, PASTE OPAQUE to BASE DENTINE and additional materials including ENAMEL: With the VITA VM LC family, we provide you with a product range that always offers the perfect solution for all tasks. And systematically as well!

Material			flow*	Paste
<b>BASE DENTINE</b> – Shade-defining BASE DENTINE materials	0M1/1M1/2M1/2M2/2M3/3M2/3M3/3R2,5 A1–D4**		✓ ✓	✓ ✓
<b>ENAMEL</b> – Translucent enamel materials	ENL END	light dark	✓ ✓	✓ ✓
<b>NEUTRAL</b> – Universal translucent material	NT	translucent	✓	✓
<b>WINDOW</b> – Transparent material, for crystal-clear effects in the enamel area – For mixing and layering of VITA VM LC PAINT stains on VITA VM LC, VITA acrylic teeth and VITA CAD-Temp – For mixing flow materials – For coating the finalized veneer – For covering cracks	WIN	transparent	✓	–
<b>EFFECT ENAMEL</b> – Translucent enamel effect material for all enamel areas – For achieving a natural effect of depth – Can be mixed with PAINT and WINDOW	EE1 EE2 EE3 EE5 EE6 EE7 EE9 EE11 EE12	whitish pastel pink-translucent yellowish-translucent reddish-translucent orange-translucent bluish-translucent greyish-translucent grey-beige	✓ ✓ – ✓ ✓ ✓ ✓ ✓ ✓	– ✓ ✓ – ✓ – ✓ – ✓
<b>CHROMA PLUS (flow &amp; paste)</b> – Shade-intensive materials – To be applied in the tooth-neck area or across the entire surface of the opaquer <b>CHROMA PLUS (flow)</b> – The intensity can be controlled through the thickness of the layer – Stronger fluorescent effect – Can also be used as a correction material, depending on the shade – Can be mixed with PAINT	CP1 CP2 CP3 CP4 CP5	ivory beige-yellow light orange-brown orange green-brown	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓
<b>GINGIVA</b> – For restoring the original gingival situation – Can be mixed with PAINT and WINDOW	G1 G2 G3 G4 G5	dusky pink orange-pink pink brown-red dark red	✓ ✓ ✓ ✓ ✓	✓ ✓ – ✓ ✓
<b>PRE OPAQUE</b> – For increasing the bonding strength – Cures optimally and allows an even opaquer layer				
<b>OPAQUE PASTE &amp; GINGIVA OPAQUE PASTE</b> – For fast handling with optimum covering capacity and stability due to the homogeneous visco-elastic consistency				
<b>OPAQUE POWDER</b> – As an alternative to OPAQUE PASTE, OPAQUE POWDER is available in many shades with a long storage capability				

### VITA VM LC GEL

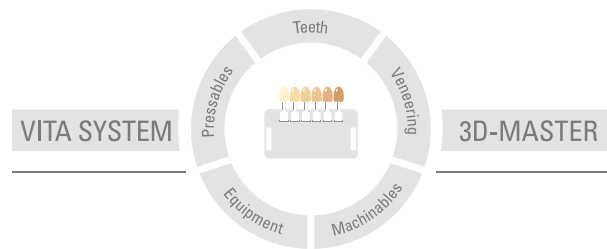
For preventing the inhibition layer during final polymerization.

\* The VITA VM LC flow materials are abrasion-resistant and can be used on the surface. They can be mixed with one another. Moreover, the VITA VM LC flow materials can be shaded by combining with VITA VM LC PAINT materials.

\*\* except B1

VITA VM LC is available in VITA SYSTEM 3D-MASTER and VITA classical A1 – D4 shades. Shade compatibility is guaranteed with all VITA 3D-MASTER and VITA classical A1–D4 materials.

With the unique VITA SYSTEM 3D-MASTER, all natural tooth shades can be systematically determined and perfectly reproduced.



**Please note:** Our products must be used in accordance with the instructions for use. We accept no liability for any damage 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 materials and equipment from other manufacturers that are not compatible or not authorized for use with our product and this results in damage. The VITA Modulbox is not necessarily a component of the product. Date of issue of this information: 05.19

After the publication of this information for use any previous versions become obsolete. The current version can be found at [www.vita-zahnfabrik.com](http://www.vita-zahnfabrik.com)

VITA Zahnfabrik has been certified and the following products bear the CE mark **CE 0124** :

**VITAVM<sup>®</sup>LC · VITA ENAMIC<sup>®</sup> · VITA CAD-Temp<sup>®</sup> · VITAPAN<sup>®</sup>  
VITAPAN<sup>®</sup> PLUS · VITA PHYSIODENS<sup>®</sup> · VITA LINGOFORM<sup>®</sup>**

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