



**Bifix** 

DUAL-CURING, SELF-ADHESIVE LUTING COMPOSITE

# Bifix® SE

## RELIABLE HOLD

### Secure hold to tooth and restoration

Quick and secure luting of indirect restorations made from ceramic, composite and metal as well as posts in the root canal is needed in the hands of the dentist. Bifix SE: The new luting composite.

### Quick processing: No etching or bonding

No additional primer or conditioner is needed when Bifix SE is used. Since time-consuming etching and bonding before luting the restoration can be omitted, the amount of time saved is considerable. Fewer work steps during the definitive luting of the restorative and prosthetic treatments also mean a procedure that is much more comfortable for the patients. Bifix SE permits the temporal control of the polymerisation with the optional light-curing. Bifix SE completely cures in the oral cavity (37°C) within four minutes. The working time is two minutes (23°C) and the practice-oriented, intra-oral working time is 30 - 60 seconds.

### Endo-mixing tips – for the most precise application, also for use in the root canal

Quick and clean application of Bifix SE in the restoration or cavity is guaranteed with the assortment of mixing tips included in every package. Bifix permits problem-free application directly into root canal with the thin endo-tips.

Quick and simple luting of an endodontic post with a predictable, successful result is a clear reduction in your workload and an advantage for you. Additional instruments, such as lentulos or other assistance tools, are no longer necessary.

### Available in three shade versions:

T = transparent, U = universal and WO = white-opaque for the ideal match to the restoration to be luted.



### Simple removal of excess in the gel phase

Only 1-2 seconds of exposure to the polymerisation light per surface. The gel-like excess can be easily removed afterwards with a scaler or other suitable instrument.



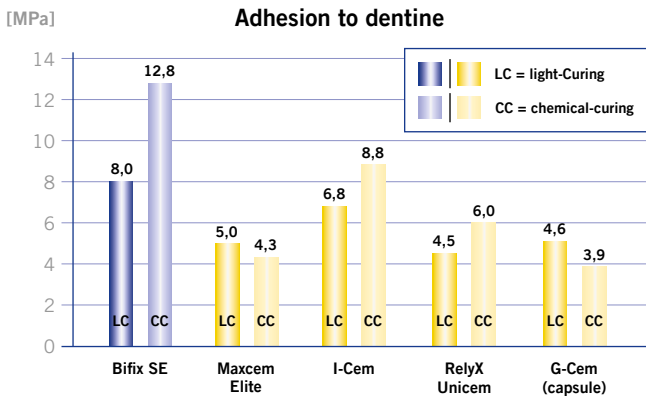
1-2 seconds 180-240 seconds

Shortly (1-2 seconds) polymerise each side after filling and inserting the restoration. The restoration is thus initially fixed

and the excess can be removed. Bifix SE achieves its final solidity after 240 seconds.

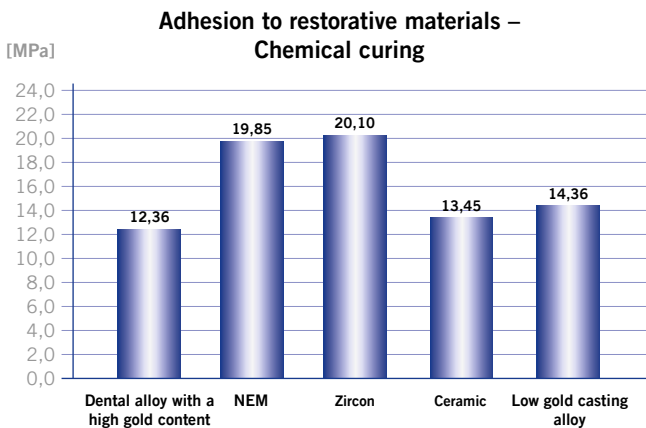
# Bifix® SE

## QUICK PROCESSING



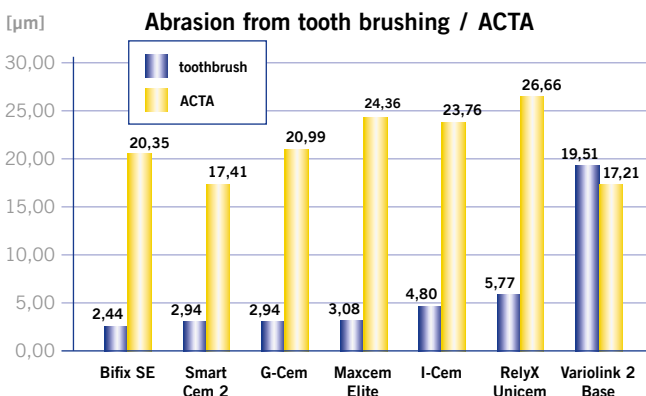
ISO/TS 11405 – VOCCO 2008

Bifix SE exhibits outstanding adhesion values on dentine and enamel, even without any additional light-curing; thus, where ever it is applied, under wall thickness or opaque restorations and in every cavity depth. Bifix SE is also extremely well-suited for luting endodontic posts, because of its reliable chemical polymerisation. Solutions often used for cleaning cores before cementation are noncritical for the adhesion values achieved with Bifix SE.



ISO/TS 11405 – VOCCO 2008

Bifix SE lutes indirect restorations made from ceramic as well as zircon, composite and metal. The high adhesion values achieved reliably secure the long-term bond between tooth and restoration. The minimal layer thickness of 10 µm guarantees the most accurate fit of the restoration possible, without elevating the bite due to the luting material.



Research report by Dr. U. Lohbauer, University of Erlangen, Germany, 2008

Maxcem Elite, I-Cem, RelyX Unicem, G-Cem, Smart Cem 2 and Variolink 2 Base are not registered trademarks of VOCCO GmbH.

Diverse luting materials were tested for their resistance to abrasion, both with the ACTA methods and simulated abrasion from toothbrushes at the University of Erlangen, Germany. These two procedures differ in the type of loading. A compressive load is conducted in the ACTA procedure, which simulates daily chewing loading. The toothbrushing abrasion, in contrast, is a shear load, which thus differs in the angle of occurrence. Bifix SE achieved outstanding values in both test procedures and thus exhibited extreme resistance to abrasion.

## Bifix® SE

### DUAL-CURING, SELF-ADHESIVE LUTING COMPOSITE

#### Indications

Secure luting of crowns, bridges, inlays, onlays as well as endodontic posts made from ceramic, zirconium and metal.

#### Product advantages at a glance

- Reliable hold to tooth and restoration
- Quick processing: no etching or bonding
- Neutral smell
- Minimal film thickness of 10 µm for an exact fit without an elevation in bite
- Also suitable for zirconium ceramic
- Endo-tips in every package for exact application also in the root canal

#### Technical data

Transverse strength:	160 MPa (LC), 150 MPa (CC)
Adhesion to dentine:	12.8 MPa
Water solubility:	1 µg / mm <sup>3</sup>
Film thickness:	10 µm
Working time:	2:00 Min.
Setting time:	4:00 Min.
Curing depth:	2 mm / 20 s (≥ 500 mW / cm <sup>2</sup> )



#### Presentations

- REF 1784 Set QuickMix syringe 3 × 5 g (universal, transparent, white-opaque), mixing tips type 14, mixing tips type 15 (for intraoral tip type 1), intraoral tips type 1
- REF 1785 QuickMix syringe 5 g universal, mixing tips type 14 and 15, intraoral tips type 1
- REF 1786 QuickMix syringe 5 g transparent, mixing tips type 14 and 15, intraoral tips type 1
- REF 1787 QuickMix syringe 5 g white-opaque, mixing tips type 14 and 15, intraoral tips type 1

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