

VITA All-Ceramics

VITA In-Ceram[®] *sprint*

Now with VITAVM[®]7



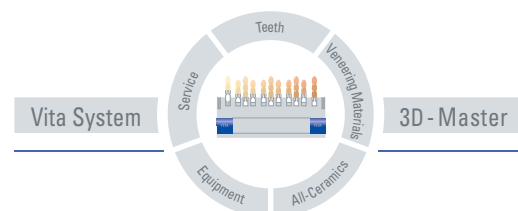
Directions for use

Crown substructures made of

VITA In-Ceram[®] ALUMINA

VITA In-Ceram[®] ZIRCONIA

Date of issue: 04-05



VITA

VITA In-Ceram® *sprint* – The time-saving system

VITA In-Ceram *sprint* provides for rapid production of VITA In-Ceram ALUMINA and ZIRCONIA crown copings. The furnace firing time has been reduced dramatically compared with the conventional firing method.

NEW

Now also with VITA In-Ceram® ZIRCONIA!

From now on it is also possible to produce VITA In-Ceram ZIRCONIA anterior and posterior crown copings using the efficient *sprint* method without any compromises with regard to the stability. The copings can be sintered in ceramic furnaces which are able to maintain the temperature of 1180°C for 40min. As far as the application of the slip material is concerned, the mixing ratio for the conventional In-Ceram ZIRCONIA processing method must be adhered to (see Working Instructions 900E, VITA In-Ceram ZIRCONIA).

VITA In-Ceram® ALUMINA is based on many years of clinical experience and features the following advantages:

- excellent aesthetics and biocompatibility, i.e.
 - no dark margins
 - good translucency
 - no gingival irritation
 - excellent marginal fit (Fig. 1)
- because of excellent physical properties will accommodate extreme functional stress
- low heat conductivity
- cementation with conventional or adhesive cements
- radiolucent
- excellent patient acceptance
- positive cost/benefit ratio
(e.g. no additional costs for high-quality alloys)
- conventional work procedures for technician
- system can be expanded
- more than **15 years** of clinical experience

VITA In-Ceram® *sprint* should not be used in the following circumstances:

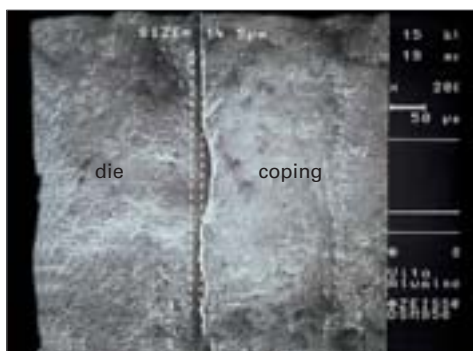
- for bridge substructures
- if a functionally appropriate design of the restoration can not be ensured,

e.g.

- inadequate tooth preparation/reduction
- unsuitable tooth preparation
- bruxism

For information on preparation and cementing please ask your VITA distributor for the booklet "Clinical Aspects" (No. 808 E).

Fig.1: Marginal gap measurement of VITA In-Ceram ALUMINA crown (Prof. H. Kappert)





Assortments and Accessories	VITA Order No.:
VITA In-Ceram® <i>sprint</i> update kit containing: VITA In-Ceram <i>sprint</i> Special Plaster, 20 bags of 20 g VITA In-Ceram INSULATION GEL, box 5 g	HPSORN
VITA In-Ceram® <i>sprint</i> for crowns assortment for the preparation of VITA In-Ceram ALUMINA crowns in modular box, complete	HPSORC
Individually available: VITA In-Ceram ALUMINA GLASS POWDER AL1* VITA In-Ceram ALUMINA GLASS POWDER AL2 VITA In-Ceram ALUMINA GLASS POWDER AL3* VITA In-Ceram ALUMINA GLASS POWDER AL4* VITA In-Ceram ALUMINA POWDER 200 g VITA In-Ceram <i>sprint</i> Special Plaster, 10 bags of 20 g*** VITA In-Ceram ALUMINA/ZIRCONIA Mixing Liquid VITA In-Ceram Interspace Varnish VITA In-Ceram Varnish Thinner VITA In-Ceram INSULATION GEL VITA In-Ceram Testing Liquid VITA In-Ceram ALUMINA Additive Firing tray Firing tray W Platinum rods for firing tray W Brush IC3 Brush IC4 Squirrel-hair brush Glass spatula Duplicating rings, Ø 25 mm Vacuum mixing beaker, complete Pipette Mixing cup, 100 ml Extra beaker with lid Shade guide Directions for use	HGAL125 HGAL225 HGAL325 HGAL425 HP400** – HAFN5 HD30 HDV30 HIG5 HP6 HA5 B017 B201N B207N B195 B092 B296 B056 B019 B130 B052 B003 B099 B2711C 1036E

* Materials are not included in the assortment.

** as single box only in 400 g available

*** as single box only with 20 bags of 20 g available

The following additional materials are required for the production of VITA In-Ceram® crowns using the *sprint* method:

VITA In-Ceram ZIRCONIA POWDER, 300 g	HZP300
VITA In-Ceram ZIRCONIA GLASS POWDER (Z21N-Z24N)	HZ2125N - HZ2425N
VITA In-Ceram ZIRCONIA additive, 5 ml	HZ5

Equipment:

The VITASONIC II ultrasonic unit as well as

VITA VACUMAT or a comparable ceramic furnace with a holding time of 40 min. are required for the processing of VITA In-Ceram *sprint* single crowns.

VITA In-Ceram® <i>sprint</i> processing method	Waiting times
1. Produce working and master model	
2. Block out and apply VITA In-Ceram interspace varnish	Drying 20min.
3. Duplicate	Setting approx. 20min.
4. Separate	Recovery time approx. 30min.
5. Pour duplicate die in VITA In-Ceram <i>sprint</i> special plaster	Setting 1 hr.
6. Separate	Drying 10min.
7. Insulate working die with VITA In-Ceram INSULATION GEL	Drying 10min.
8. Mix In-Ceram powder and apply	
9. Dry working die in the furnace	Drying 20min.
10. Remove crown coping from the die	
11. Sinter firing	approx. 70 min.
12. Finish sintered substructure	
13. Apply VITA In-Ceram GLASS POWDER	
14. Glass infiltration firing	60min.
15. Remove / sandblast excess glass	
16. 1st Glass control firing	10min.
17. 2nd Glass control firing	10min.
18. Veneer crown coping with VITA VM 7	