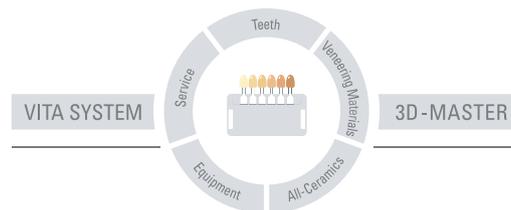
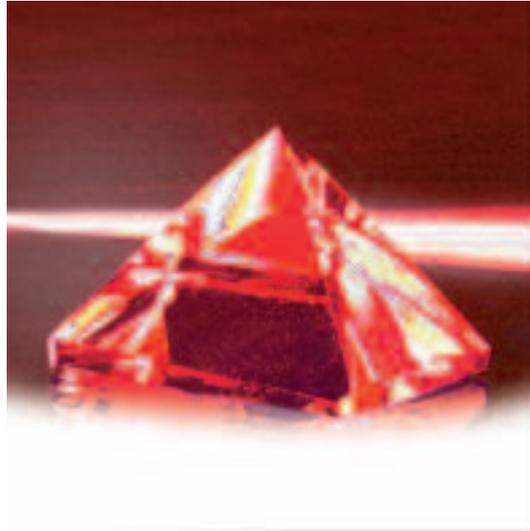


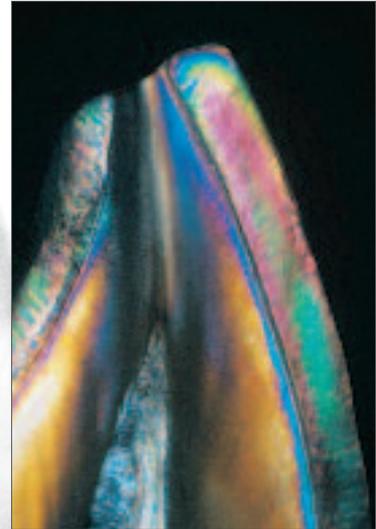
VITA INTERNO®

For natural, in-depth colour effects



VITA

**The VITA Interno ceramics
enable the ceramist to
achieve an even more
perfect reproduction of
in-depth shade effects.**



Outstanding results can be obtained with Interno ceramics, particularly when reproducing colour effects (contrasts) occurring in the incisal area of natural teeth.

Their high fluorescence means shades with increased luminosity and even better light transmission - just as in natural dentition.

VITA Interno ceramics can be mixed with dentine and translucent porcelains. This intensifies the chromatic effect.



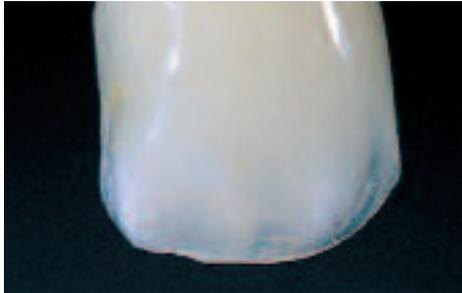
In special cases the Interno ceramics can be used to create an additional impression of depth when space is lacking.

**Study on
natural teeth:**

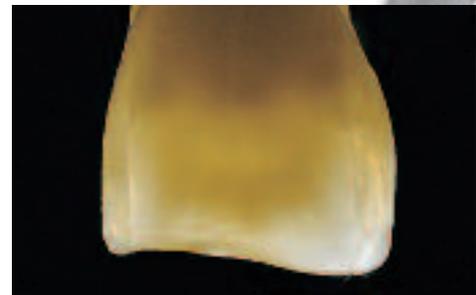
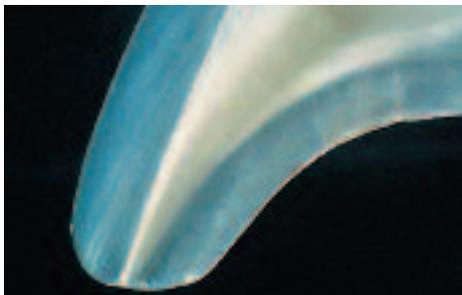
Typical shade reflection
on the incisal edge



Clearly visible internal
structures in the dentine of
a natural tooth after re-
moving the enamel layer



The cross-section
illustrates the diversity
of colour effects within
the dentine

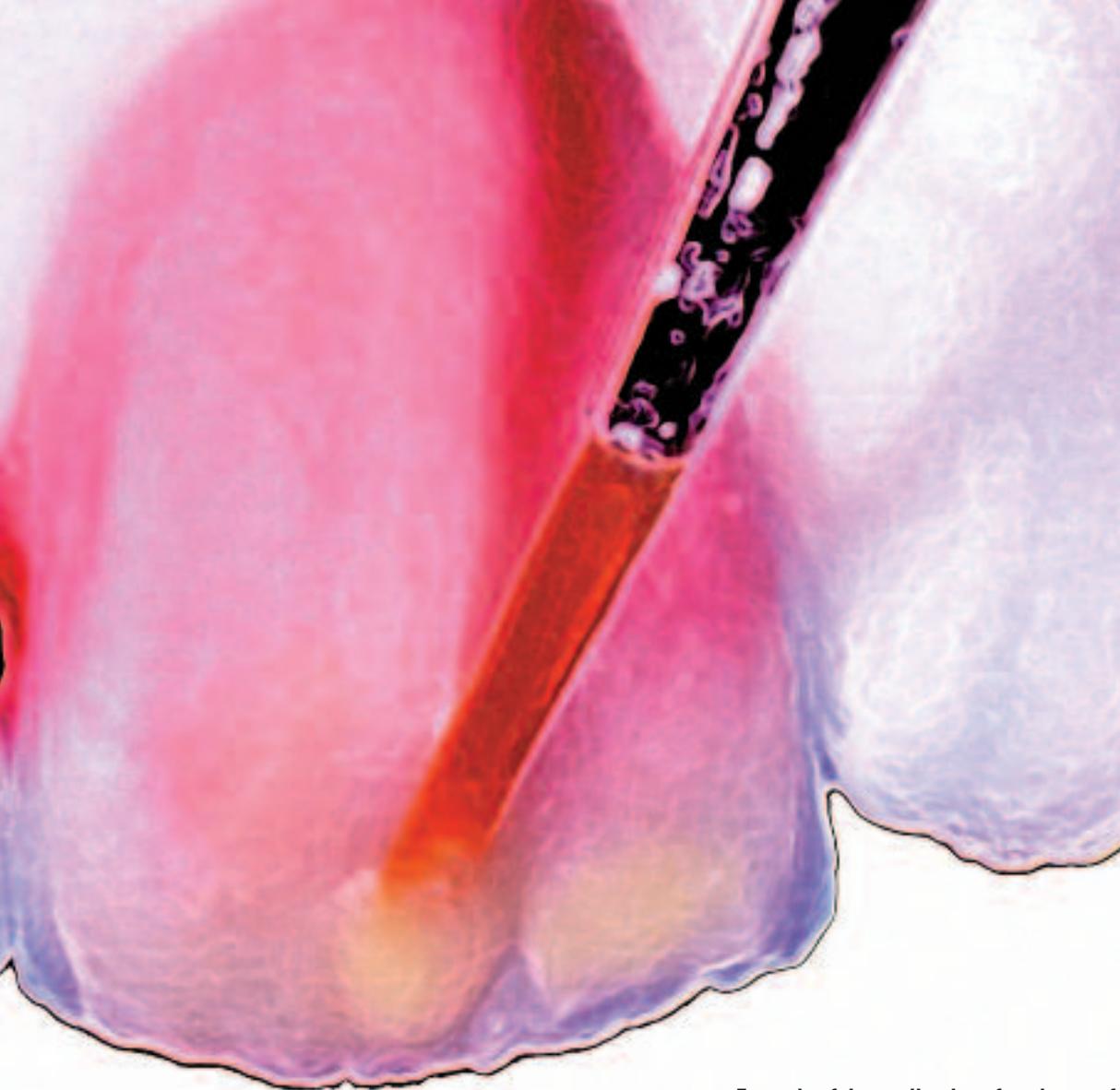






Various factors alter the structures in natural teeth. Contrasts and colour effects are to be found particularly in the teeth of older patients.





Example of the application of a mixture of Interno and transparent porcelain to imitate orange incisal shading. The Interno mixture should be "washed" into a well-moistened ceramic. It is also important to make sure the Interno ceramics are inlaid or "washed in" only in a very thin layer.





Lifelike impression of depth with Interno ceramics in the crown.



Observations on natural dentition.
The intense luminosity of the Interno ceramics matching the highly fluorescent effect of natural teeth:



above:

VITA In-Ceram SPINELL crown

centre:

A natural tooth;

below:

Fluorescence of a SPINELL crown with Interno ceramics in the VITADUR ALPHA layering technique





Bright reflection in a natural tooth
– this is revealed by the facet.





Three case examples





The Interno ceramics demonstrate remarkably lifelike interdental and incisal effects in the lateral incident light.



**Cracks are three-dimensional
and can occur in various
colour combinations.**



**By mixing with other Interno
ceramics, the shade of Interno 12
(splinter) can also be altered,
and individualised.**





**Restoration with
VITA Interno – the results
speak for themselves.**



The VITA Interno ceramics were developed and created in close co-operation with the ceramist Claude Sieber, Basle/Switzerland.

The concept of this brochure bears his stamp, the photographs and patient cases portray his philosophy.

| | |
|--|---|
|  | VITA Interno white smoke - Int 01 |
|  | VITA Interno sand - Int 02 |
|  | VITA Interno lemon chrome - Int 03 |
|  | VITA Interno sunflower - Int 04 |
|  | VITA Interno coral blush - Int 05 |
|  | VITA Interno gold earth - Int 06 |
|  | VITA Interno misty lilac - Int 07 |
|  | VITA Interno marina - Int 08 |
|  | VITA Interno cream pearl - Int 09 |
|  | VITA Interno burnt orange - Int 10 |
|  | VITA Interno clove - Int 11 |
|  | VITA Interno splinter - Int 12 |

The VITA INTERNO® Assortment contains

| Material | Order No. | Quantity |
|------------------------------------|------------------------|------------------|
| Interno ceramics | Int 01 - Int 12 | 12 x 5 g |
| Interno FLUID | | 1 x 20 ml |
| Akzent/Interno mixing plate | | 1 piece |
| Glass spatula | | 1 piece |
| a & e brush No. 3/0 | | 1 piece |
| Shade sample blade | | 1 piece |
| Working instructions | No. 770 E | 1 piece |

VITA INTERNO® Working Instructions

Area of applications

The porcelains of this assortment are shaded according to the anomalies occurring in natural teeth. These porcelains enable the user to reproduce natural shade effects and obtain an even more perfect match of ceramic restorations to natural teeth. VITA Interno porcelains can be used with all types of ceramic techniques, i.e. VITA VM 13, VITA VM 7, VITA VM 9, VITA VM 15, the VMK 95, OMEGA 900 Metal Ceramics and VITA TITANIUM PORCELAIN.

These stains, however, are not intended for shading opaque materials.

Properties

The Interno porcelains are fine-grained and slightly fluorescent and are distinguished by their shade intensity. It is possible to mix these with one another. They can be used either on their own or mixed into opaque dentine, dentine, enamel and translucent porcelains.

Working procedure

When mixed with opaque dentine, the VITA Interno porcelains increase the fluorescence and natural luminosity of a ceramic restoration in varying light conditions. When Interno porcelains are mixed with dentine, the shade character of the porcelain can be altered. The Interno/dentine mixture (Int 01-03 and Int 09) is particularly suitable for mamelon effects. Due to their fine-grained structure, the Interno porcelains are also very suitable for washing into the dentine or opaque dentine in their unmixed state to achieve in-depth shade effects.

A mixture of translucent and Interno porcelains (e.g. Int 01, Int 03, Int 08) enhances the translucent effect in the incisal area. Using the Interno porcelain Int 12 (splinter), either on its own or mixed with other Interno porcelains, it is possible to reproduce natural enamel cracks. The Interno porcelains Int 10 and Int 12 have no fluorescence; these are particularly suitable for reproducing the brownish discolorations resulting from dentine hardening in abraded teeth. The firing temperature is that of the dentine firing of the material used.

Important

When grinding dental ceramic products it is necessary to use suction unit, wear a dust mask or keep the workpiece wet.



Recommended firing:

| VITAVM [®] 7 | Pre-drying | → min. | ↗ min. | ↗ °C/min. | Temp. approx. °C | → min. | VAC min. |
|-----------------------|------------|-----------|-----------|--------------|------------------|-----------|-------------|
| Dentine firing | 500 | 6.00 | 7.27 | 55 | 910 | 1.00 | 7.27 |

| VITAVM [®] 9 | Pre-drying | → min. | ↗ min. | ↗ °C/min. | Temp. approx. °C | → min. | VAC min. |
|-----------------------|------------|-----------|-----------|--------------|------------------|-----------|-------------|
| Dentine firing | 500 | 6.00 | 7.27 | 55 | 910 | 1.00 | 7.27 |

| VITAVM [®] 13 | Pre-drying | → min. | ↗ min. | ↗ °C/min. | Temp. approx. °C | → min. | VAC min. |
|------------------------|------------|-----------|-----------|--------------|------------------|-----------|-------------|
| Dentine firing | 500 | 6.00 | 6.55 | 55 | 880 | 1.00 | 6.55 |

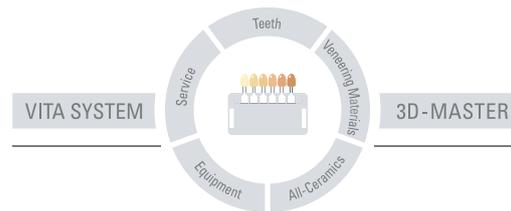
| VITAVM [®] 15 | Pre-drying | → min. | ↗ min. | ↗ °C/min. | Temp. approx. °C | → min. | VAC min. |
|------------------------|------------|-----------|-----------|--------------|------------------|-----------|-------------|
| Dentine firing | 400 | 6.00 | 8.00 | 50 | 800 | 1.00 | 8.00 |

| VITA VMK [®] 95 | Pre-drying | → min. | ↗ min. | ↗ °C/min. | Temp. approx. °C | → min. | VAC min. |
|--------------------------|------------|-----------|-----------|--------------|------------------|-----------|-------------|
| Dentine firing | 600 | 6.00 | 6.00 | 55 | 930 | 1.00 | 6.00 |

| VITA OMEGA 900 | Pre-drying | → min. | ↗ min. | ↗ °C/min. | Temp. approx. °C | → min. | VAC min. |
|----------------|------------|-----------|-----------|--------------|------------------|-----------|-------------|
| Dentine firing | 600 | 6.00 | 6.00 | 50 | 900 | 1.00 | 6.00 |

| VITA TITANKERAMIK | Pre-drying | → min. | ↗ min. | ↗ °C/min. | Temp. approx. °C | → min. | VAC min. |
|-------------------|------------|-----------|-----------|--------------|------------------|-----------|-------------|
| Dentine firing | 400 | 6.00 | 7.00 | 53 | 770 | 1.00 | 8.00 |

With the unique VITA SYSTEM 3D-MASTER
all natural tooth shades are systematically determined
and completely reproduced.



Please note: Our products have been developed for the use in the dental sector and have to be processed in accordance with the directions for use. Illustrations and written information do not include any undertaking as to qualities and are not binding. After the publication of these working instructions any previous versions become obsolete. The current version can be found at www.vita-zahnfabrik.com

VITA Zahnfabrik is certified in accordance with the Medical Device Directive and the following products mentioned in this brochure bear the mark  0124:

VITA INTERNO®



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VITA

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