MICRO CERAMIC HYBRID COMPOSITE SYSTEM FOR ANTERIOR AND POSTERIOR REGIONS
easy handling · exceptional aesthetics · excellent properties · high mechanical strength · short polymerisation time · elasticity · wide indication range · time-saving application

We are committed to keep high quality standards and to do everything necessary to meet this goal within the company.

At the same time, our company’s philosophy is:
“Research is our best Product”.

Our company’s slogan:
“SHOFU Quality with every turn!”
means permanent conformity and improvement of our customer related activities.

Wolfgang van Hall
Managing Director
Unlimited possibilities by innovative composite technology
CERAMAGE / SOLIDEX 4

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Polish ability · translucent incisal- and effect modifiers · natural fluorescence · low affinity to plaque · high
traction · exclusively light-curing · biologically harmless
Light-curing materials for restorations of teeth, like micro-filled veneering materials have excellently performed in clinical practice and have become standard due to their excellent properties and easy handling.

As a manufacturer of direct and indirect filling and veneering composite systems SHOFU set new standards for light-curing materials, because these materials fulfil the clinical demands of dentist, dental technician and patient in physical and aesthetic respect to their fullest satisfaction.

The acquired knowlegde and many years of experience led to the development of a new material, which combines the advantages of ceramics and composite – CERAMAGE.

CERAMAGE is not comparable to conventional composite materials, because it is filled with micro-fine ceramic for more than 73 % (PFS filling-materials, Progessed Fine Structured Filler).

This composition, supported by a filling organic polymermatrix, strengthens this homogenous structure and gives CERAMAGE properties similar to those of ceramics, to be used for metal-supported as well as metal-free anterior and posterior restorations. Additional to the physical properties a light transmission very close to that of natural dentine and enamel had been integrated into CERMAGE.

Therefore CERAMAGE combines a natural color reproduction with extraordinary strength and elasticity and is recommended for standard works as well as highly stressed restaurations and implantation constructions.

- Excellent bending and pressure strength
- Highly strong but elastic
- Realisation of abrasion resistance of occlusal veneerings
- Highest aesthetics by light transmissions similar to that of natural teeth
- Extensive range of translucent effect colors
- High color stability
- Perfect viscosity and modelling properties
- Very good to polish
- Excellent resistance against plaque
- Biologically not harmful
UNRESTRICTED INDICATIONS IN ANTERIOR AND POSTERIOR REGIONS

- Fully veneered crowns and bridges
- Fully veneered telescopic and implantation works
- Attachment works
- Occlusal veneering
- Inlays / Onlays
- Veneers
- Long-term temporary restorations
- Modification of conventional acrylic teeth
CHARACTERISTICAL PROPERTIES

Naturally light leading and abrasion strength

The natural appearing and the light scattering of dentine and enamel is different. In order to reproduce these properties as natural and easy as possible it had been necessary to create a new composition of filling materials, of their size and structure as well as their optical properties when developing CERAMAGE.

The light-transmission and – diffusion of the CERAMAGE incisal and dentine compounds is therefore very similar to that of natural teeth.

Already with a basis layering, consisting of opaque dentine, dentine and incisal compounds you reach a natural aesthetics unattained until now for composite restorations.

Highly strong and elastic

CERAMAGE provides an extraordinary combination of elasticity and abrasion strength. Harder as other light-curing composites, it is extremely rupture-resisting but considerably more elastic than ceramics. Therefore CERAMAGE is an excellent solution for durable lateral restorations.
EXCELLENT APLICATION PROPERTIES AND AESTHETICS

Inlays / Onlays
The structure and extraordinary composition of the CERAMAGE compounds allow a controlled application and carving, even of small anatomical details. Thus the production of metal-free inlays and lateral restorations is easily and fast to realize.

Natural aesthetics of anteriors
Due to the natural lightleading and fluorescence of the CERAMAGE compounds restorations with one basic layering, consisting of opaque dentine, body, translucent and incisal can be produced which impress by their brilliance and vividness after integration in the mouth of the patient.
SYSTEM COMPONENTS
SPACER • M.L. PRIMER • PRE-OPAQUE

The individual components of CERAMAGE composit system are co-ordinated systematically, because only like that it is guaranteed that simply and rationally high-quality and durable composite restorations can be made.

CERAMAGE SPACER
This distance lacquer forms a rubber-similar substitute layer in order to reach a sufficient layer strength for attachment cement, particularly with metal-free restorations. Immediately after laying on CERAMAGE SPACER becomes colorless, so that a colored impairment is missing during the preparation of the inlays/onlays, veneers, or crowns.

M.L. Primer
Particularly co-ordinated on the CERAMAGE and SOLIDEX Opaques convinces this bonding solution by an excellent and durable bonding to all usual dental alloys. These cross-linkings are extremely resistant to effects of humidity and thermal loads.

CERAMAGE PRE-OPAQUE
The ready for use, milk-cloudy CERAMAGE Pre-Opaque contains a special light-conducting filler, which makes a thinflowing viscosity possible with a complete hardening, also between the retentions. The high mechanical properties support the bonding properties between the retention beads. The complete covering of the metal frames is easily been made by application of the fine-particled CERAMAGE Paste Opaque which can be used die pur purely or mixed with Opaque effect colors.
SYSTEM COMPONENTS
OPAQUE • BODY • INCISAL
SYSTEM COMPONENTS
MODELLING LIQUID • FLOWABLE COMPOSITE • OXY-BARRIER

MODELLING LIQUID
The outstanding modelling characteristics of the CERAMAGE Composite pastes can be adapted well-directed to the individual desires and requirements by the application of Modelling Liquid. Apart from this application this modelling liquid serves the re-establishment of the dispersed layering of already grinded composite surfaces, e.g. after the form correction of the dentine core.

FLOWABLE COMPOSITE
This new developed, thinflowing composite facilitates the purposeful application of anatomical details on and at difficult accessible ranges e.g. with the production of inlays/onlays. Beside a highly transparent paste various incisal and dentine colors are available.

OXY-BARRIER
Applied before the final polymerization, the OXY BARRIER gel protects the surface of the composite against the influence of oxygen and prevents the formation of an inhibition layer. Following working on fine anatomical details, as for example fissures and the following polishing can afterwards being accomplished time-saving.
THE COLOR CONCEPT

All color variants of the CERAMAGE system are co-ordinated logically and offer a versatile spectrum of individual, translucent and opaque effect masses, as one expects them with ceramic veneering systems. With this color offer all aesthetic challenges and characteristics can be realized.

Basic - Colors

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NCC steht für das Natural Color Concept.
These supplementing colors form a meaningful extension of the “classical” color variants. Root A (intensive A) is more chromate intensive than the color A4. The red shift colors R2, R3 and R3.5 refer to the A-group and exhibit somewhat more reddish colours. Like that the color R3 is a light shift more reddish with same intensity.

Effect - Colors
POLLISHING SIMPLY WITH SYSTEM

Due to the very good polish ability and the homogeneous surface resulting from CERAMAGE it shows only a very small affinity to plaque, which corresponds the natural teeth.

The unusual structure and the 73% portion of ceramic micro fillers ensure a durable surface quality.

CERAMAGE FINISHING & POLISHING KIT

With the co-ordinated and particularly for the treatment of CERAMAGE developed abrasive instruments of this kit a time-saving an optimal surface condition is reached. Due to the long tool life of the diamond-impregnated CompoMaster Coarse and CompoMaster Polishes this is possible in difficult accessible regions, as occlusal or interdental.

DURA-POLISH

The alumina polishing paste DURA-POLISH smoothes fast and simply all ranges of the CERAMAGE restoration. Afterwards the homogeneous surface can be polished to high lustre without any problem.

DURA-POLISH DIA

This extremely high-filled diamond polishing paste was co-ordinated particularly by the particle structure and distribution with the inorganic fillers of the CERAMAGE composite. Prepared with the DURA-POLISH Paste all anatomical details can be polished out to a high lustre in shortest time with DURA-POLISH DIA and a felt-wheel.
TECHNICAL DATA

The outstanding physical characteristics of CERAMAGE are reached exclusively by light-curing. Complex and time-intensive precipitation or thermal treatments are not necessary. An advantage, which is of importance especially with implant-born restorations, because the differently processed materials are not exposed to further thermal load during the polymerisation.

The unique composition and homogeneous structure confer CERAMGE ceramic-similar characteristics, which find application both with metal-supported, and with metal-free anterior and lateral tooth restorations.
SET COMPONENTS
AB SET • CD SET • 8 COLOR SET

CERAMAGE AB SET
The comprehensive CERAMAGE AB SET forms the basis of this composite line and with its logically co-ordinated individual components enables it the nature-like reproduction according to the VITA* classical color system. Beside the ready for use opaque pastes, opaque dentines, body and inzisal masses, this assortment contains already an extensive offer of translucent opalescent effect masses.

CERAMAGE CD SET
The practical auxiliary component for the completion of the CERAMGE of system. Based on the contents of the CERAMAGE AB assortment all color variants of the VITA* classical color system can be reproduced with this auxiliary set.

CERAMAGE 8 COLOR SET

*VITA is a registered trademark of VITA Zahnfabrik, Bad Säckingen, Germany.
SET KOMPONENTEN
INTRO SET • GUM SET

CERAMAGE INTRO SET
The rational entrance into the CERAMAGE technology. Available in the colors A2, A3 of the VITA * classical color system contain these sets all necessary components from the M.L. Primer bonding system up to the brush for application of the opaquets on and for the modellation of the single masses.

CERAMAGE GUM SET
The naturally appearing re-establishment of gingiva portions is just of great importance during the preparation of telescopic and implant-born restorations. With the components of the CERAMAGE GUM SET a ready for use opaque paste, each a bright and a dark as well as a translucent gingiva mass are available.

We would like to thank Mr. ZTM Kazunari Ohata, Tokyo, Japan, for his kind support and for the photographs he placed at our disposal.
Shofu Dental GmbH