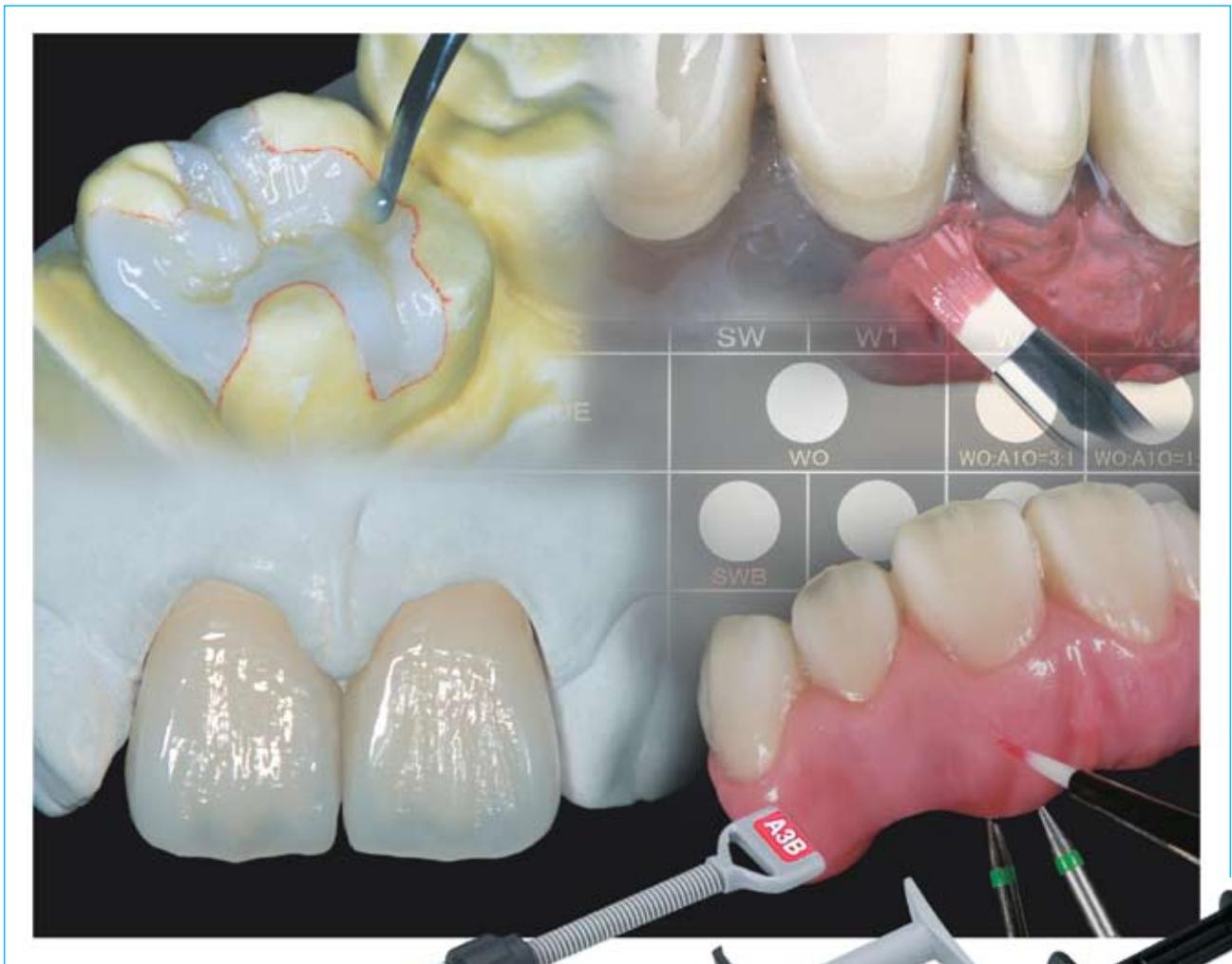


CERAMAGE®

Zirconium Silicate Indirect Restorative System



CERAMAGE®

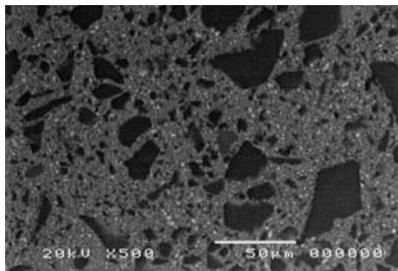
Ceramage has crossed a milestone in indirect resin technology and consistently exceeded the expectation of the dental team by combining exceptional aesthetics, superior mechanical properties and long-term colour stability with minimal abrasion of the opposing dentition.

This micro-ceramic polymer system contains 73% zirconium silicate fillers (PFS-Progressive Fine Structured Fillers) evenly distributed in an organic polymer matrix, to ensure a durable surface quality with excellent polish and high plaque resistance, ideal for both metal-supported and metal-free anterior as well as posterior restorations. Known for its ceramic-like image, Ceramage exhibits life-like aesthetics and exceptional translucency while its comprehensive shade spectrum enables the simulation of a wide range of surface textures and translucencies, as discrete as those seen in the natural teeth and gum.

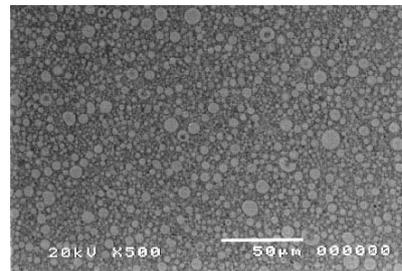
CONVENTIONAL COMPOSITES

CERAMAGE

Conventional composites show unequal relations between glass-fillers and matrix.



The homogenous micro-structure gives CERAMAGE excellent physical properties.



CERAMAGE OFFERS...

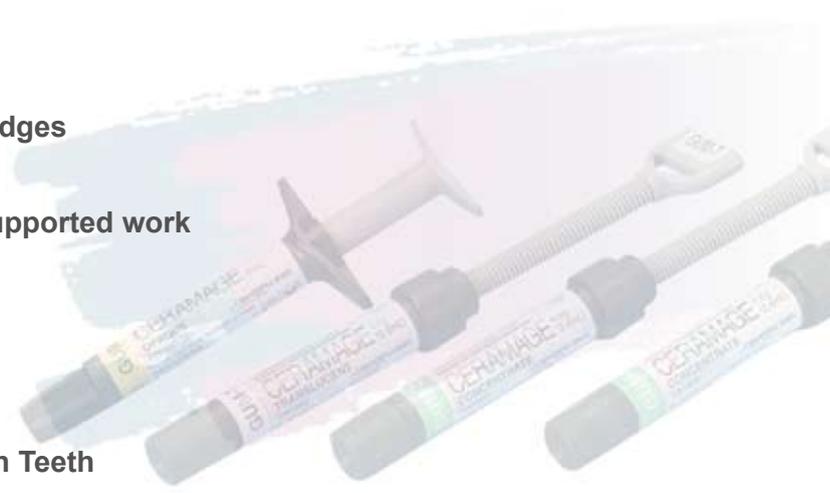
- ▶ Superior aesthetics with easy reproduction of natural tooth colour
- ▶ Excellent flexural and compressive strength
- ▶ Long-term colour stability
- ▶ Ideal viscosity with optimal handling characteristics
- ▶ Easy to sculpt, non sticky and easy to separate from spatula
- ▶ Remarkable abrasion resistance specially on opposing dentition
- ▶ High elasticity suitable for posterior restorations
- ▶ Superior polish and high plaque resistance
- ▶ Extensive range of translucent incisal, effect modifiers, gum and whitening shades
- ▶ Natural Fluorescence and Opalescent
- ▶ Simple Polymerization system with a fast application technique

VERSATILE MATERIAL

An intricate balance of extraordinary strength and elasticity coupled with the reproduction of natural colour ensures that Ceramage can be used in standard cases as well as implants and stress bearing restorations.

Indicated for...

- Metal or Fiber Reinforced Crowns and Bridges
- Veneers and Jacket Crowns
- Fully Veneered Telescopic and Implant-Supported work
- Precision Attachment work
- Reinforced Occlusal Restorations
- Inlays / Onlays
- Long-term Temporary Restorations
- Modification of conventional Acrylic Resin Teeth
- Repair of Porcelain or Indirect Resin Restorations



Life-like Anterior Aesthetics

Natural light transmission and fluorescence of the Ceramage paste ensures that anterior crowns exhibit a vivid brilliance in the natural oral environment.



Durable Inlays / Onlays

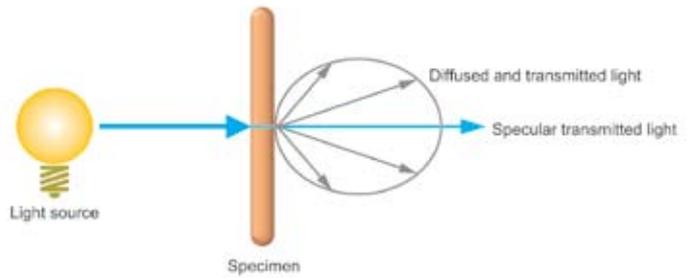
Unique resin-filler equilibrium assures superior mechanical and handling properties that simplify the fabrication of strong, metal-free inlays and onlays that last over time.



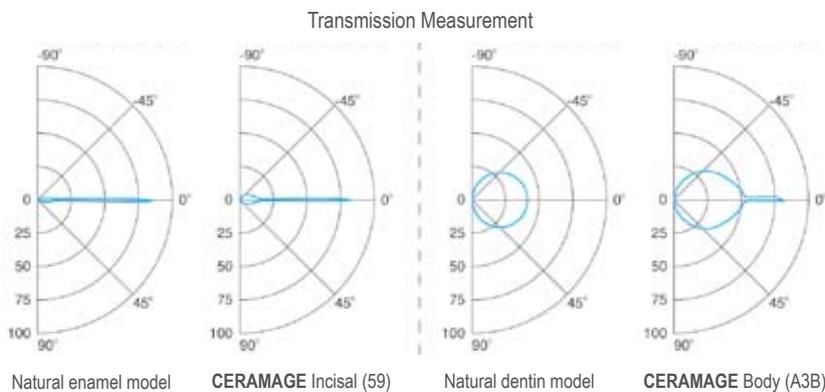
BENEFITS

Natural Aesthetics

Ceramage has a combination of a hybrid type PFS (Progressive Fine Structured) fillers and nano fillers with light refractive indices similar to natural enamel and dentin. The optical characteristics of light transmission and light diffusion seen in the incisal and body shades of Ceramage assure that life-like restorations can be easily reproduced with a perfect colour match to conventional dental shades, while exhibiting natural fluorescence and opalescence.



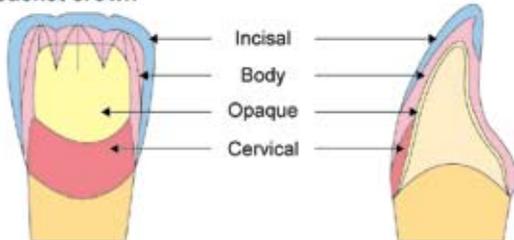
Principle of measuring transmission and diffusion of light



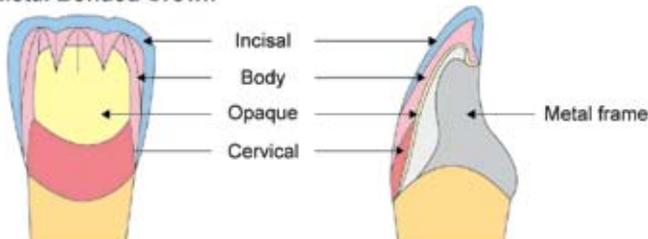
Simple Layering Technique

Ceramage adopts a simple layering technique that enables the technician to build up incrementally with the opaque, body and incisal pastes to achieve natural aesthetics similar to Vintage porcelain series.

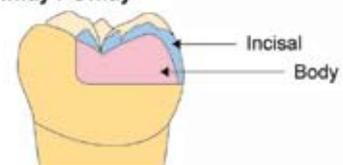
Jacket crown



Metal Bonded Crown



Inlay / Onlay



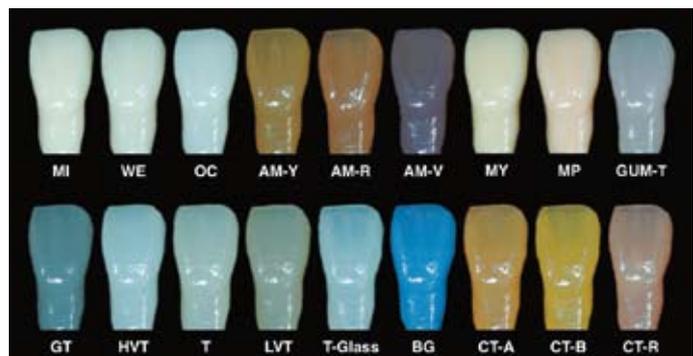


Remarkable Handling Characteristics

Ceramage has a unique microstructural architecture and composition that imparts a non-sticky, easy to sculpt consistency for controlled application and efficient carving of minute anatomical details. Ceramage flow, a flowable variant, complements the Ceramage system and saves time by facilitating the creation of intricate details and flow into inaccessible areas. It is ideal for surface characterization of posterior teeth, simulation of mamelon structure and to apply on the base of deep inlay restorations.

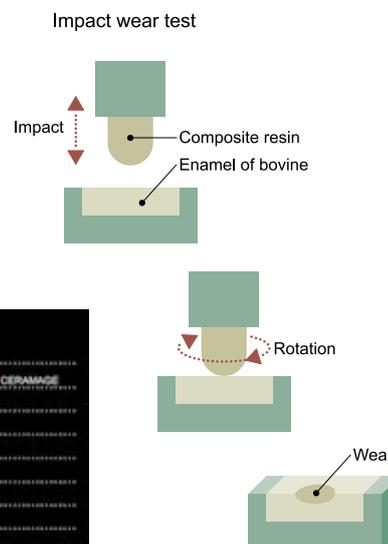
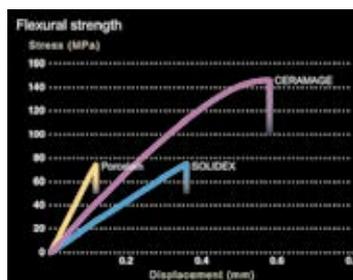
Versatile Spectrum of Effect Shades

An exclusive array of translucent and effect concentrates further increase the aesthetic possibilities of the Ceramage system and offer limitless options especially in aesthetically challenging cases.



Superior Mechanical Properties

Ceramage has a high filler concentration supported by a robust resin matrix that provides extraordinary elasticity and abrasion strength, making it an ideal choice for durable posterior restorations. Though harder than other light cure composites, it is designed to be extremely resilient and considerably more elastic than ceramics with inherent advantages of flexibility, impact strength and minimum wear on opposing teeth for better clinical performance.



THE NATURAL COLOUR CONCEPT

The Ceramage colour system is logically coordinated and offers a versatile spectrum of individual, translucent and opaque shade modifiers, similar to most ceramic systems. The wide array of shades of Ceramage harmonizes with the natural tooth colour such that even with thin layers of application, case specific individualized aesthetics can be easily achieved.

Basic Colours

COLOR	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
OPAQUE	A1O	A2O	A3O	A3.5O	A4O	B1O	B2O	B3O	B4O	C1O	C2O	C3O	C4O	D2O	D3O	D4O
CERVICAL		A2C	A3C	A3.5C	A4C		B1C	B2C	B4C		C2C	C3C	C4C	D2C	D3C	D4C
OPAQUE DENTIN	A1D	A2D	A3D	A3.5D	A4D	B1D	B2D	B3D	B4D	C1D	C2D	C3D	C4D	D2D	D3D	D4D
BODY	A1B	A2B	A3B	A3.5B	A4B	B1B	B2B	B3B	B4B	C1B	C2B	C3B	C4B	D2B	D3B	D4B
INCISAL	A1I	A2I	A3I	A3.5I	A4I	B1I	B2I	B3I	B4I	C1I	C2I	C3I	C4I	D2I	D3I	D4I

Effects Colours

OPAQUE	OP	OPB	OPC	OPD	OPE	OPF	OPG	OPH	OPJ	OPK	OPL	OPM	OPN	OPP	OPQ	OPR	OPS	OPT
TRANSLUCENT	T	HVT	LVT	T-Glass	BC	GT	CT-A	CT-B	CT-R	GUM-T								
INCISAL	S8	S7	S6	S5	S4	S3	S2	S1										
CONCENTRATE	AM	WE	DC	AM-V	AM-B	AM-V	MY	MP	GUM-L	GUM-D								
FLOWABLE CR	F-T-Glass	F-SB	F-D047	F-A20	F-rootA8													

Supplementary Range of Colours

NCC Shades

The additional NCC colours are a rational extension of the “classical” colour variants. Root A is more chroma intensive than colour A4, while the red shift colours R2, R3 & R3.5 are associated with the A-group with a slightly more reddish hue. R3 is slightly more reddish than A3 with the same chroma.

COLOR	rootA	R2	R3	R3.5
OPAQUE	rootAO	R2O	R3O	R3.5O
OPAQUE DENTIN	rootAD	R2D	R3D	R3.5D
BODY	rootAB	R2B	R3B	R3.5B
INCISAL	rootAI	R2I	R3I	R3.5I

Whitening Shades

Ceramage Whitening colours (W0, W1, W2 and W3), a whiter variant of the conventional A shade, is developed to meet the continued demand for whiter / brighter teeth influenced by Hollywood smiles.

GUIDE No.	WHITENING SHADE				A SHADE					
	W0	W1	W2	W3	A1	A2	A3	A3.5	A4	rootA
IMAGE										
SHADE	-2.0	-1.5	-1	-0.5	1	2	3	3.5	4	5

COLOUR	W0	W1	W2	W3
OPAQUE	W0O	W1O	W2O	W3O
BODY	W0B	W1B	W2B	W3B
INCISAL	W0I	W1I	W2I	W3I

PERFECTING GINGIVAL AESTHETICS WITH CERAMAGE GUM

A specially designed supplementary range of unique gingival shades compliment the tooth coloured component of the Ceramage restoration by replacing receded or missing gingiva. These versatile gum and effect shades have been adapted to easily mimic the intricate anatomical details, surface texture and nuances of the natural gum to meet any patient situation.

Indicated for...

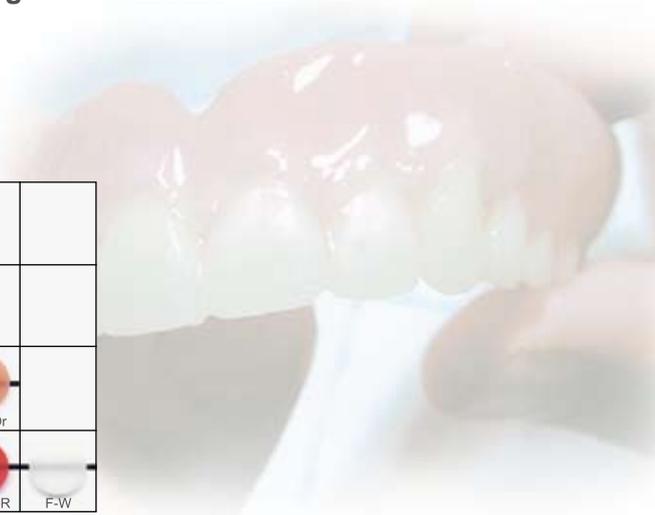
- Crafting the gum in implant supported supra-structures, removal prostheses such as partial dentures and telescopic restorations
- Restore missing or receded gums in veneers, crowns and bridges, precision attachment restorations, etc.
- Individual characterization to achieve customized gingival aesthetics



BENEFITS



Opaque	 GUM-O	 WO		
Translucent	 GUM-T			
Concentrate	 GUM-L	 GUM-D	 GUM-Or	
Flowable CR	 F-GUM-Br	 F-GUM-V	 F-GUM-R	 F-W



Superior Gingival Aesthetics

The comprehensive range of Ceramage Gum Colours can be intermixed at different proportions to achieve the desired shade that corresponds to the red-white aesthetics of each individual. Shades such as bluish violet or light-pink can be easily attained to mimic the variations in gum aesthetics of the patient.

Predictable Application Technique

Developed with three discrete viscosities for fast and easy application during the reconstruction and characterization of gingival areas.

Superb Polishability and High Plaque Resistance

The Ceramage gum restoration can be efficiently polished to a glazed-like polish with the Ceramage Polishing kit, thus minimizing plaque adherence and providing high stain resistance.

- Ceramage Gum Opaque
- Ceramage Gum Concentrates
- Ceramage Flowable Composite

Gum Opaque

Ceramage Gum Colour system consists of two opaque pastes- white opaque and gum (pink) opaque, which can be carefully intermixed in varying proportions to attain a wide range of intermediate pink shades that provide an accurate base shade to mask the framework.



Ceramage Gum Concentrates

Specially developed shades in paste consistency for reproduction of the basic gingival shade:

- GUM-L (GUM Light) – for bright gingival shades
- GUM-D (GUM Dark) – for dark gingival shades
- GUM-Or (GUM Orange) – for orange tinted gingival shades
- GUM-T (GUM Translucent) – for reddish translucent gingival shades



Flowable Gum Shades

Flowable variant of the gum in various shades facilitate individual characterization as seen in the natural gum.

PHYSICAL DATA

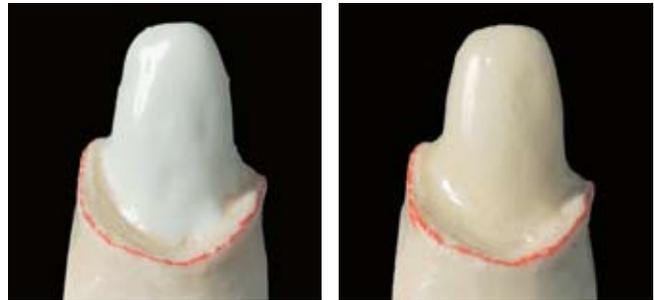
	Ceramage Crown and Bridge Composite	Ceramage Flowable Composite Resin
Vickers Hardness (HV)	74	40
Flexural Strength (MPa)	146	132
Flexural Modulus (GPa)	10.7	6.0
Compressive Strength (MPa)	354	303
Indirect Tensile Strength (MPa)	62	58
Polymerisation Shrinkage (Vol.%)	2.5	3.3
Toothbrush Abrasion (%)	0.43	0.74
Enamel Abrasion of the Antagonist(µm)	3.2	2.5
Working Time (minutes)	> 30	25

SYSTEM COMPONENTS

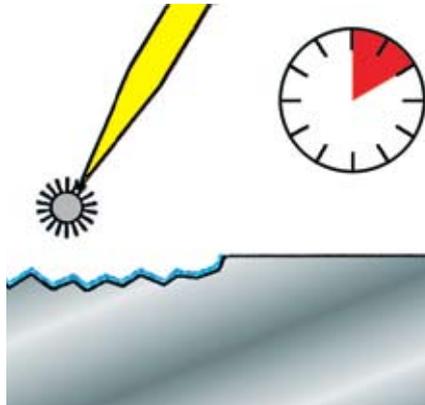
Ceramage has a well co-ordinated system where all the individual components are systematically organized to ensure that high quality restorations are fabricated efficiently in simple, easy and predictable steps.

Ceramage Spacer

A resilient lacquer which helps to retain cement space, particularly with metal-free restorations.



CERAMAGE SPACER becomes colourless after application.



Apply ML Primer on cleaner surface and leave undisturbed for 10 seconds

M.L. Primer

A bonding primer that provides an excellent and durable bond between the Ceramage opaque and metal substructure.



Ceramage Pre-Opaque

A milky, flowable opaque with light transmitting fillers provides a secure bond.



CERAMAGE PRE-OPAQUE flows easily into undercut areas of retention beads



SYSTEM COMPONENTS



Used alone or mixed with Opaque modifiers to attain the desired shade.

OPAQUE

A micro-filled flowable opaque paste that is easy to apply and uniformly masks the underlying metal frame or discoloured tooth abutment to achieve an excellent colour match to natural tooth.

BODY / ENAMEL / TRANSLUCENT

While the Opaque dentin and Body pastes with high filler content mimic dentin layers, the cervical pastes simulate the deeper cervical areas of natural teeth.

Incisal and Translucent pastes mimic the translucent enamel layer of natural tooth and impart various degrees of transparency.



All anatomical details of the dentin core can be reproduced accurately.



The opalescent Incisal and Translucent pastes are placed similar to the enamel layer of natural teeth.

* VITA is a registered trademark of VITA Zahnfabrik, Bad Säckingen, Germany.

MODELLING LIQUID

A colourless unfilled resin that aids in adapting the Ceramage paste and acts as a wetting agent to restore the dispersion layer after contouring with abrasives.



Applied as wetting agent Modelling Liquid secures the bonding to add-on material.

FLOWABLE COMPOSITE

The smooth flowing composite facilitates the simulation of intricate anatomical details and effortless application in difficult, inaccessible areas, eg. inlays/onlays.



The high flowability enables an exact placement into the cavity or areas difficult to reach.



OXY-BARRIER

An inert gel applied before final curing, it protects the composite surface against the influence of oxygen to assure optimal cure and prevent the creation of the inhibition layer. This saves time during detailed anatomical contouring and polishing.



The bluish gel permits a visual control of the applied regions.

LITE ART

Creativity at your fingertips with LITE Art

Lite Art is a new generation of light cured resin stains created for characterization and shade modification of indirect resin restorations, artificial teeth and acrylic denture bases.

These stable, fluorescent stains can be used on their own or intermixed to attain vibrant shades that closely mimic natural tooth colouration and elaborate surface details. Lite Art is formulated with novel multifunctional monomers and photo initiators that assure an easy application in thin, even layers similar to ceramic stains and optimize surface cure for a stable, impervious colour.

Indicated for...

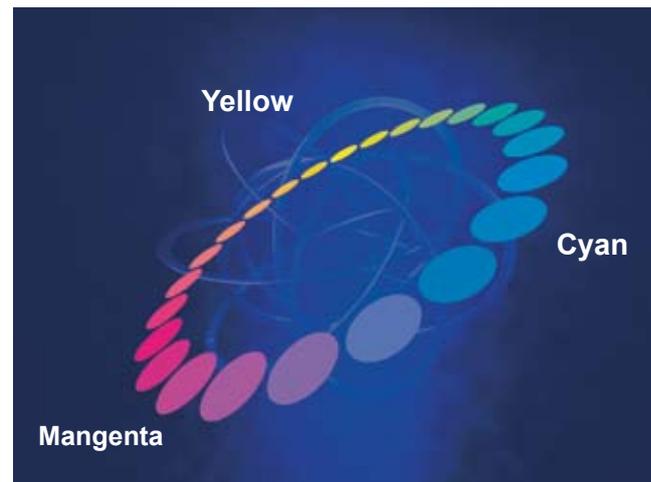
These medium viscosity light cured stains enable:

- Individual characterization of indirect composite (Solidex & Ceramage) crowns, bridges, inlays, onlays, veneers, etc.
- Customized staining of artificial (resin) teeth
- Characterization of prostheses base such as partial or complete dentures, gum coloured telescopic and implant supported restoration
- Harmonization of temporary framework and tooth coloured resins, PMMA frameworks, long-term temporaries



COLOUR CONCEPT

The colour concept is based on the comprehensive Munsell Colour System and adopts the Subtractive colour mixing theory to create a range of brilliant shades, consistent with our Vintage Art porcelain stain colours. In addition to conventional colours, Lite Art colour spectrum includes specially formulated vivid stains in 3 Primary Colours: Cyan, Magenta and Yellow, composed of organic colour pigments. Various combinations of primary colour stains mixed with Black or White offer a vivid spectrum of shades for easy simulation of the desired shade modification.



Spectrum of Shades

Lite Art comes in a versatile spectrum of twelve premixed colours that simulate the various nuances seen in natural teeth as well as the varied pigmentation in the gingiva.

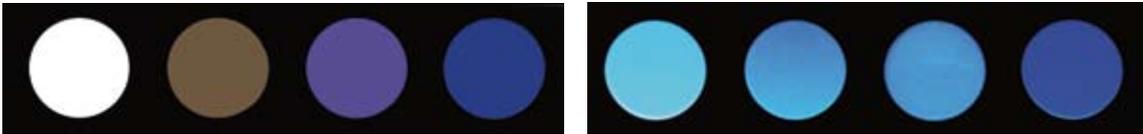
The intensity and hue can be easily modified by mixing the various tints to impart specific character to the restoration. The stain liquid can be used to modify colour intensity or dilute the stains when desired.



Colour		Application					
Indication	Code	Shade Adjustment	Cervical	Stain	Incisal	Gum	Colour Mixing
White	W			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Black	B	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
Red	R					<input type="checkbox"/>	<input type="checkbox"/>
A-Shade	AS	<input type="checkbox"/>	<input type="checkbox"/>				
B-Shade	BS	<input type="checkbox"/>	<input type="checkbox"/>				
Khaki	K		<input type="checkbox"/>	<input type="checkbox"/>			
Orange	O	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
Blue Gray	BI-G				<input type="checkbox"/>		
Violet	V	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
Orange Brown	O-Br		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Dark Red Brown	DR-Br		<input type="checkbox"/>	<input type="checkbox"/>			
Black Brown	B-Br		<input type="checkbox"/>	<input type="checkbox"/>			
Cyan	Cyan						<input type="checkbox"/>
Magenta	Magenta						<input type="checkbox"/>
Yellow	Y						<input type="checkbox"/>

NATURAL FLUORESCENCE

These versatile stains mimic optical characteristics similar to natural teeth under natural as well as artificial light conditions. Lite Art stains exhibit natural fluorescence so the restoration is indistinguishable from the natural teeth even in ultraviolet light.



EXCEPTIONAL ADAPTABILITY

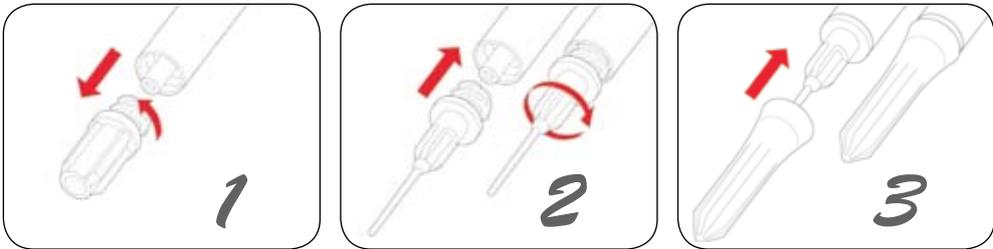
Lite Art comprises of an ultrafine particle structure for a homogeneous consistency and superior camouflaging properties even with thin layers. The polymerized stains can be simply covered with an incisal or translucent composite layer to achieve the desired natural accents.



UNIQUE SYRINGE DESIGN

The leak-proof syringe comes with a slim dispensing tip for better control and ease of application.

How to use Nozzle Tip and Nozzle Cap



Attach Nozzle Tip securely.

After dispensing, cap with the Nozzle Cap securely.



INDIVIDUALIZED AESTHETICS

- ▶ Simulation of the incisal translucency, cervical darkening and surface artifacts such as craze / crack lines
- ▶ Internal staining of occlusal pits and fissures
- ▶ Characterization of acrylic resin teeth
- ▶ Modification of acrylic denture base to mimic natural gum aesthetics
- ▶ Mimicking of age changes – intense chroma in aged teeth caused by thinning of enamel
- ▶ Hypocalcification spots or prominent mamelon areas seen in young teeth



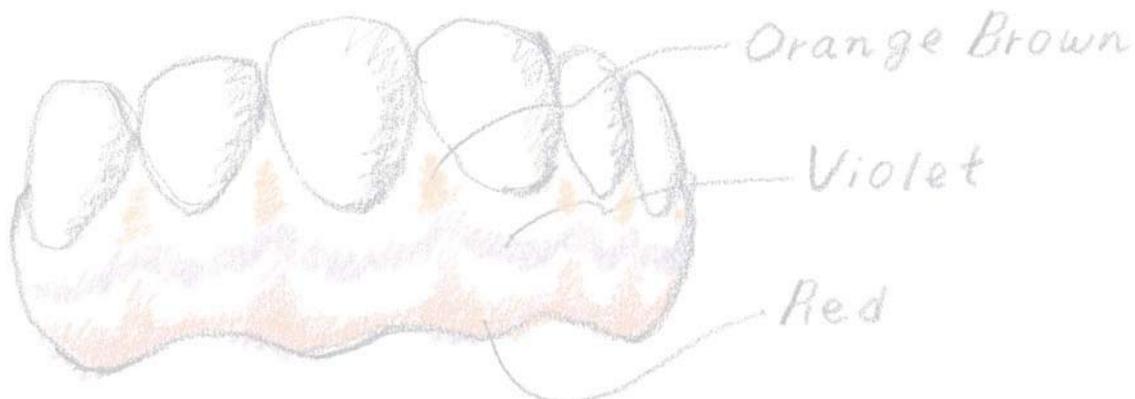
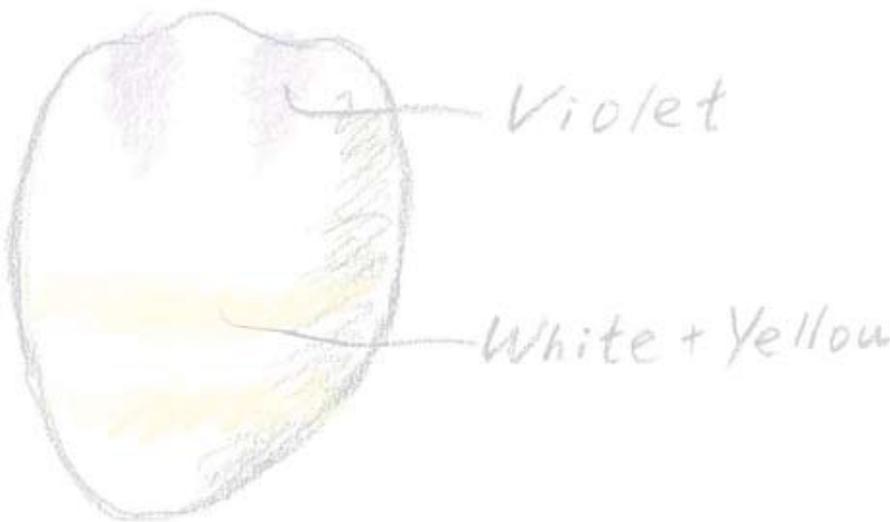
Individual Characterization of a Posterior Crown.



Individualizing Incisal Translucency & Mimicking Enamel Hypocalcification.



Customized gum aesthetics.



ORDER INFORMATION



Ceramage 8 Colour Set [PN 1806]
Shades: A1-A4, B2, B3 and C3



Ceramage Intro Set
Available in: A2 [PN 1807], A3 [PN 1808],
A3.5 [PN 1809]



Ceramage Gum Colour Set [PN 1804]



Lite Art Full Set [PN 1970]
Colour Stains x 15 (1ml each), 6ml Clear
Liquid x 1, Uni Brush (No.5) x 1, Colour
Card, Nozzle Tip x 15, Nozzle Cap x 15



Lite Art Refills in 15 Individual Colours



Clear Liquid [PN1986]
6ml bottle x 1



**Solidilite V [PN 5106] & Sublite V
[PN 5108] Curing Unit**



Ceramage Polishing Kit



**Retention Beads Set
[PN 1578]**



**Beads Pen
[PN 1590]**



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SHOFU DENTAL SUPPLIES (SHANGHAI) CO. LTD. No.645 Jiye Road, Sheshan Industry Park Songjiang Shanghai 201602, China (www.shofu.com.cn)
SHOFU DENTAL CORPORATION 1225 Stone Drive, San Marcos, CA 92078-4059, USA (www.shofu.com)
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