

visio.lign

Veneering system



Implant prosthetics

Metal-free restorations

Crowns and bridges

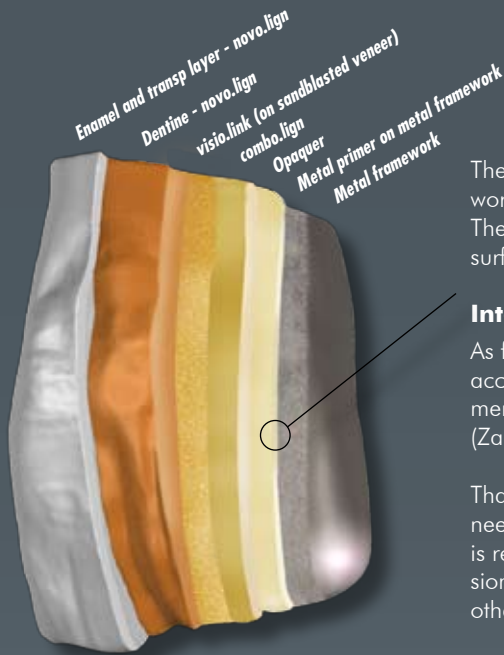
From the setup to the definitive veneer

New Products

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Opaquer combo.lign



The weakest area in adhesive bonding is the interfacial surface to the metal framework.
The dual-curing combo.lign opaquer ensure complete hardening at the bonding surface.

Interfacial surface to the metal

As far as the strength of the bond is concerned, the so-called „chain rule“ applies, according to which the stability or strength of the chain is determined by the weakest member of the chain.
(Zahntechnik MAG 2004, p. 519)

Thanks to the combination of layer application technique and the prefabricated veneers, bonding values of 25 MPa are achieved in the entire system but the E-modulus is reduced in the framework from more than 200,000 to 3,000 MPa. The compression shear strength of the visio.lign system of at least 25 MPa exceeds the values of other systems available in the market by 50 %.

Perfect suitability for the use in the region of molars is ensured by impact resistance, which is 5-7 times higher than that of composite veneers, and high resistance to chipping.



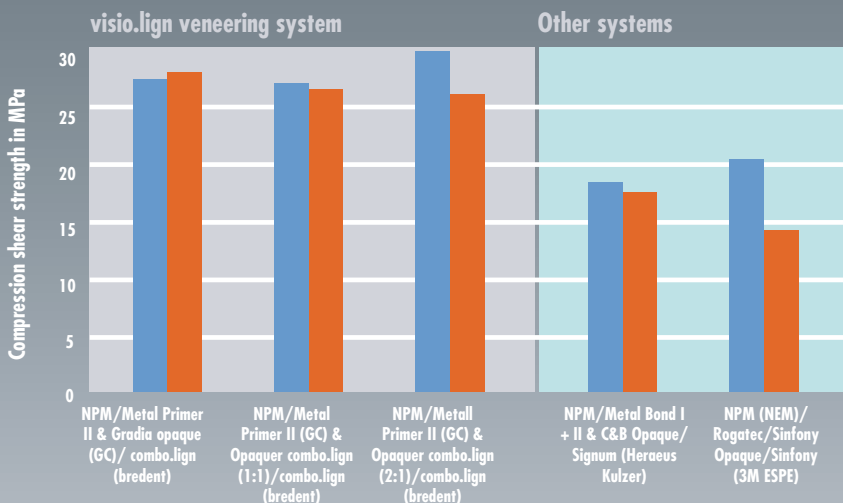
- Wavelength range: 370 to 500 nm
- Processing time: 5-6 min at 20° C
- Chemical curing: < 10 min
- Polymerization: 2*180 sec. in the Uni XS (Heraeus Kulzer)
- Layer thickness: 0.1 – 0.2 mm



Shades and classification - classical A-D shade system

- Light = A1, A2, A3, B2
- Medium = A3,5, B3, D3
- intensiv = A4, C3
- Gum = gingiva
- Katpaste = add catalyst paste for dual-curing*

Framework materials / Bonding systems



Bonding test, University of Jena, Dr. Göbel
Metal-composite bonding systems

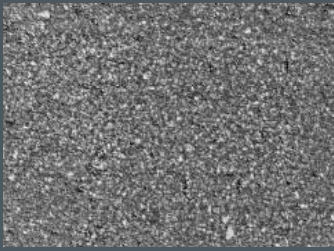
1 day 37° C
25.000 TLW

* Add catalyst paste in the mixing ratio of 1:1 to 1:2 to the opaquer

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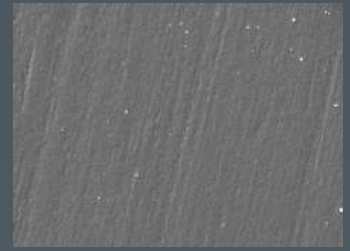
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The finishing material crea.lign and crea.lign Modifier



3M ESPE - Sinfonie

crea.lign is purely microfilled and does not contain any dental glass to provide unsurpassed polishing properties. Prior to polishing, the average surface roughness is approx. Ra 0.05 μm . When polishing of crea.lign is started, a surface quality is available which can be achieved by other materials only after final polishing and is only one reason for the lasting shade stability and resistance to plaque. More information is available in our visio.lign courses and presentations/speeches.



crea.lign

REM-Aufnahmen untersuchter Verblendcomposite im Schlibbild A. Rzanny, Deutsche Zahnärztliche Zeitschrift 2007, page 738 and crea.lign



Wet the brush



Take up crea.lign



Spread evenly



Individualizing with crea.lign Modifier



Palatal/lingual for free hand modelling



Incisal for layering and characterizing



Approximal and cervical for adding on...



...and red-white esthetics

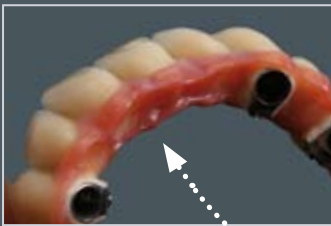
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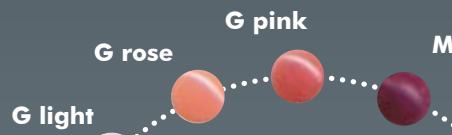
The esthetic design and the red-white transition zone



One of the key aspects in the esthetic design is the red-white transition zone. visio.lign allows planning and achieving perfect esthetics also in the gingival region.



Thanks to the development of combo.lign GUM, the layering technique can also be used in the gingival region. This way large gingival areas can be efficiently modelled on metal, zirconium and composites. Direct application is possible thanks to premixing in the cartridge; dual-curing guarantees reliable polymerizing and superior bonding values.



The different colors of the GUM materials in the visio.lign veneering system result in a life-like appearance of the gingiva.

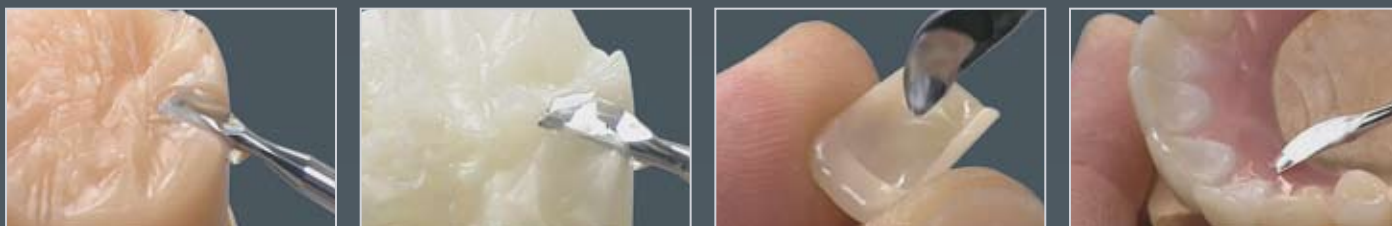
Lab. Od. Lazetera Antonio - Savona - Italy
Dott. Vescia Luca - Villa Dossola - Italy



crea.lign is also suited for individualizing denture base materials. The crea.lign Modelling Liquid allows to achieve homogeneous transition (adjustment of elasticity and hardness) to PMMA-based denture base materials. Reliable bonding to all PMMA- and composite materials is accomplished with visio.link.

Up to 30 % of crea.lign Modelling Liquid can be mixed with crea.lign and permanent resistance to discoloration and plaque is ensured. The liquid is polymerized in the same ways as crea.lign.

Esthetics guaranteed - from the setup to the definitive veneer



Planning of the dental restoration starts with a natural arrangement including the veneer-up and the selection of design, shade and the position of the tooth/teeth. The patient is given a clear „preview“ of his definitive restoration thanks to the use of the esthetic novo.lign veneers and beauty setup, the esthetic add-on wax. By mixing the light and dark shades, all classical A-D shades can be reproduced.

beauty setup - what you see is what you get



Lab. Od. Lazetera Antonio - Savona - Italy
Dott. Vescia Luca - Villa Dossola - Italy

The esthetic try-in, important for the coordination and determination of all esthetic design options for the definitive restoration.

It is the key to predictable esthetic and hence to patient satisfaction. The use of the visio.lign system allows to achieve full reproducibility of the definitive restoration.



Metal-free Restorations



Compatibility:

Resin, composite & Bio XS – veneers

Resin or composite framework materials feature higher elasticity and lower flexural strength than metal frameworks.

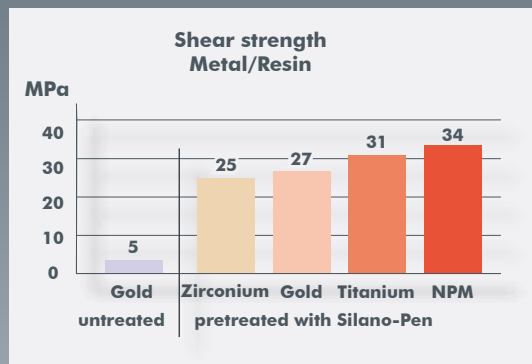
- Perfect modelling of the framework is achieved with visio.lign. Top-quality veneers can be achieved by an esthetic, top notch layering technique and little space is required.
- visio.link, the primer and bonder in one, convinces by outstanding bond strength in combination with all three material groups: PMMA, composites and Bio XS.
- Adhesive bonding with combo.lign protects the veneer thanks to high wettability and E-modulus, reduces the deflection and protects against chipping or fracture.



Compatibility: Zirconium – Veneers

Zirconium dioxide is clearly harder than metal. After veneering with ceramic, the total structure causes an excessively hard occlusion and is exposed to the risk of chipping and may lead to temporomandibular problems.

- When using visio.lign, veneering of the zirconium is carried out using a bonding system tested at universities. A durable veneer with materials featuring high impact strength and clearly higher elasticity is only achieved by chemical bonding to zirconium dioxide.
- No excessively hard occlusion, protection of the opposing jaw, antagonist teeth and the temporomandibular joints.
- No chipping and no discoloration; same plaque resistance as natural teeth.
- Can be extended and is very reliable especially for implant restorations.



Currently, the Silano-Pen provides the only method in which all framework materials made of metal or zirconium (zirconium oxide, aluminium oxide, glass and feldspar ceramics) can be conditioned for bonding to resins / composites and bond strength values of at least 25MPa (compression shear strength) can be achieved.

Implant prosthetics



The SKY fast & fixed system is a prosthetic concept for immediate restoration of edentulous patients. The use of visio.lign veneers creates a predictable, esthetic result. Esthetics, reliable bonding and shade stability as well as tremendous reduction of working time and costs can be effectively combined in implant prosthetics. When using this treatment concept, the resulting price advantage can be passed on. This way new target groups for implant prosthetics can be reached.



From the veneer-up to the definitive veneer - a practical case documented at the IFZI Nürnberg. The film is available as a DVD.

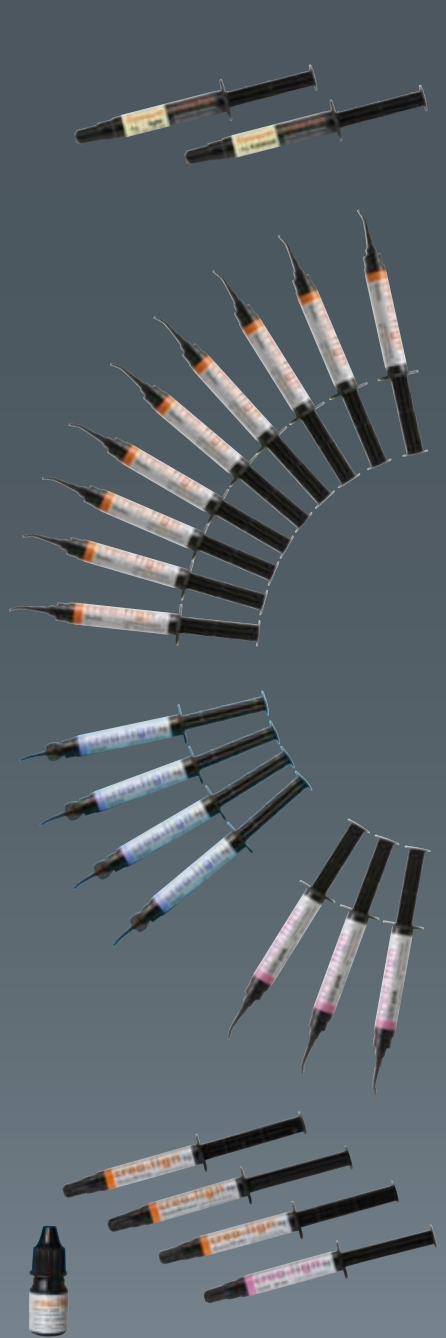


The modular principle. New ways in the treatment concept for patients wishing to have a fixed bridge on implants. Lower price (up to 50 %) than a comparable metal-ceramic bridge. . .
 QS 34/ July 2008

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Overview of new products



| | |
|----------------------------------|----------|
| OPAQUER COMBO.lign | REF |
| OPAQUER light A1, A2, A3, B2, C2 | CO1X4OPL |
| OPAQUER medium A3,5 / B3 / D3 | CO1X4OPM |
| OPAQUER intensive A4 / C3 | CO1X4OPI |
| Catalyst paste | CO1X4KAT |
| OPAQUER GUM | CO1X4OPG |

| | |
|-------------------|----------|
| crea.lign Dentine | REF |
| DA1 | CLFMDA10 |
| DA2 | CLFMDA20 |
| DA3 | CLFMDA30 |
| DA3,5 | CLFMDA35 |
| DA4 | CLFMDA40 |
| DB2 | CLFMDB20 |
| DB3 | CLFMDB30 |
| DC3 | CLFMDC30 |
| DD3 | CLFMDD30 |

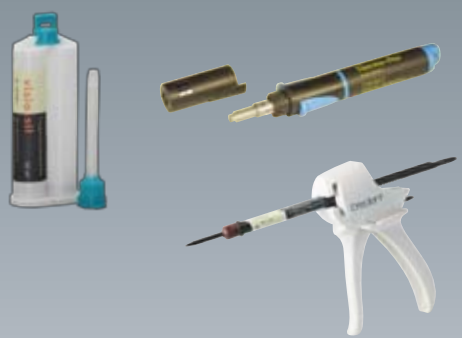
| | |
|-------------------|----------|
| crea.lign Incisal | REF |
| I universal | CLFM00I4 |
| I opal | CLFM00I1 |
| I blue | CLFM00I2 |
| I rose | CLFM00I3 |

| | |
|-------------------|----------|
| crea.lign Gingiva | REF |
| Gum light | CLFM00G1 |
| Gum rosa | CLFM00G2 |
| Gum pink | CLFM00G3 |

| | |
|----------------------------|----------|
| crea.lign Modifier | REF |
| Modifier beige (Dentine) | CLFM00M1 |
| Modifier oliv (Dentine) | CLFM00M2 |
| Modifier brown (Dentine) | CLFM00M3 |
| Modifier lila (GUM) | CLFM00M4 |
| crea.lign Modelling Liquid | CLFM0D10 |
| combo.lign GUM | CO2X4GUM |



| | |
|---------------------------------|------------|
| Beauty setup wax, tooth-colored | REF |
| Beauty setup light | 430 0030 0 |
| Beauty setup dark | 430 0031 0 |



| | |
|--------------------------------------|------------|
| Complementary products and solutions | REF |
| Silano-Pen | 320 0047 0 |
| Thermo-Pen | 110 0147 0 |
| visio.sil | 540 0120 0 |
| Dispenser 5 ml 1:1 (for combo.lign) | 320 0044 1 |

