MAJOR

MAJOR
AF LINK

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MAJOR **AF LINK**

The MAJOR AF LINE is a veneering system made of a line of composite multi-layer facings and teeth complemented with a range of light curing materials specifically designed to obtain life-like restorations on implant prosthesis.

The MAJOR AF LINK may be used for a wide range of dental treatments, both by the dentists in their own clinics and by technicians in the laboratories.

The multi-layered teeth and facings, in composite materials, have been developed to match natural aesthetics with functional concepts. They may be used in combination with the MAJOR AF link of cements, bonding agents, light curing composites and acrylic resin materials for characterization of aesthetic implant restorations.

The entire MAJOR AF link has been projected to grant an optimal materials compatibility while achieving excellent results thanks to the wide range of available shades.

The MAJOR AF link may be used in several different types of veneering and aesthetic restorations on implant prosthesis, such as:

- Aesthetic diagnostic try-ins
- Conical and telescope crowns
- Implant supported restorations
- Permanent and temporary crowns and bridges
- Occlusal Veneers
- Combined prosthesis
- Temporary and total prosthesis

TIME AND COST SAVINGS

The MAJOR AF LINK allows dentists the realization of implant prosthesis in a very easy and fast way, achieving greater time and cost savings using the composite veneers as temporary aesthetic try-ins. In this way, patients can immediately evaluate the final results of the permanent implant to be made in the laboratory at a later time, using the same selected facings.

OPTIMAL RESULTS WITH COMBINED PROSTHESIS

The use of the MAJOR AF LINK to make combined prosthesis together with the MAJOR PLUS COMP artificial teeth allows optimal results in terms of shades uniformity and occlusal functionality. The MAJOR PLUS COMP artificial teeth have been developed together with the veneer facings to obtain a range of shades and moulds which matches the MAJOR AF COMP LINE.

RESTORATIONS AND AESTHETICAL CHARACTERIZATIONS

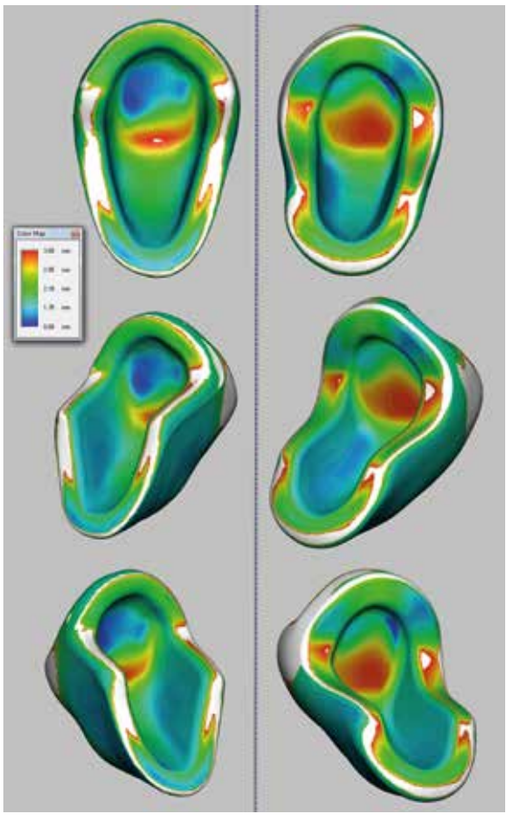
The MAJOR AF light curing composites for stratifications and aesthetic restorations may be directly applied on the veneer facings using the MAJOR AF LINK bonding agents. These composites were developed to grant a stable and durable adhesion. The MAJOR AF light curing composites and acrylic resins allow the realization of an almost endless combination of characterizations achieving excellent aesthetic and functional results.

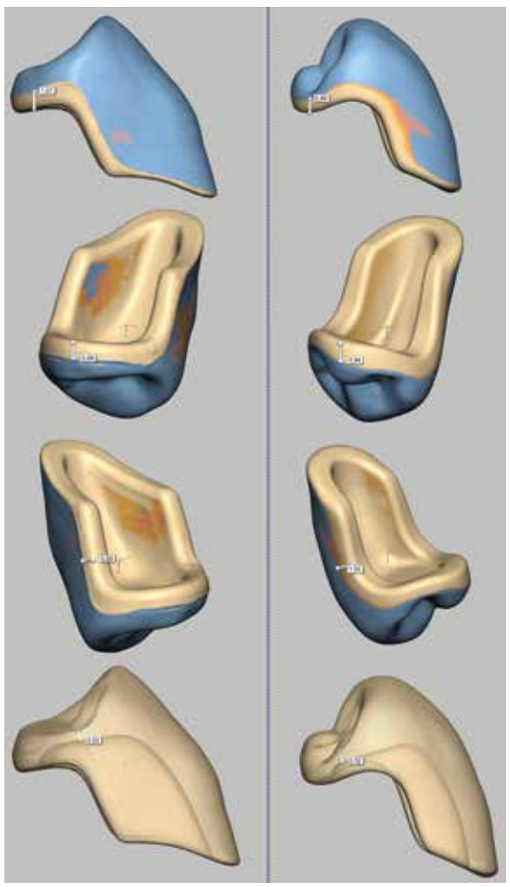
MAIN FEATURES

Immediate visibility of the aesthetic result
Adaptability to all types of prosthetic implants
Can be used with composite or acrylic resins
Wide range of aesthetic characterizations

MAJOR **AF COMP**

Three-dimensional design of the morphology and stratification of the veneers.





MAJOR AF COMP VENEERING TEETH **MAJOR PLUS COMP** TEETH

The MAJOR AF COMP veneer facings and the MAJOR PLUS teeth are manufactured in Italy by MAJOR. One of the leading European dental companies, MAJOR has been manufacturing teeth in composite materials for over thirty years. The adoption of the most modern manufacturing techniques grants exceptional quality and reliability of the MAJOR AF COMP materials.

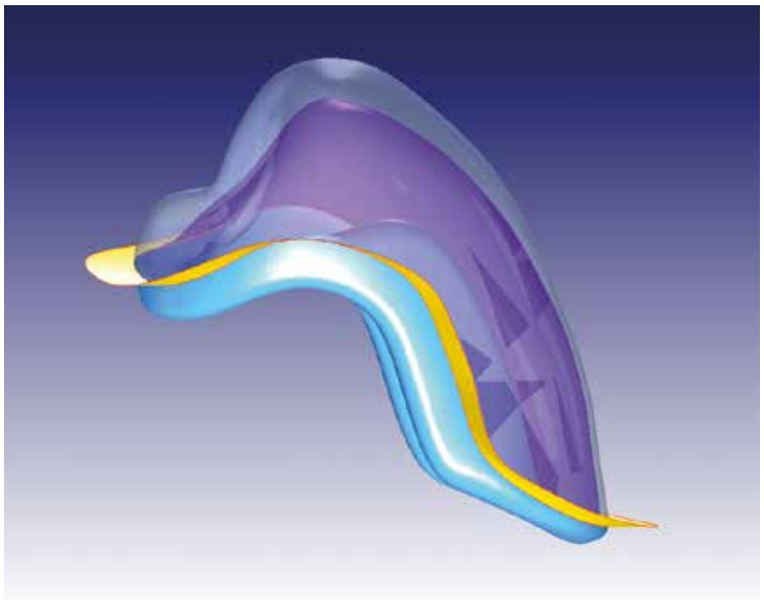
The MAJOR AF COMP veneer facings and the MAJOR PLUS COMP teeth allow any dental professional to greatly reduce the need of additional selective adjustments.

MORPHOLOGY

The wide range of anterior and posterior moulds allows an optimal use of the veneer facings, in combination with the MAJOR AF LINK products in any type of aesthetic restoration made by dentists or by dental technicians.
The MAJOR AF COMP veneer facings and the MAJOR PLUS posterior teeth are available in a range of ANATOMICAL, TECHNICAL and WFA (WIDE FUNCTIONAL AREA) moulds.
High ANATOMIC moulds present an accentuated cuspidal inclination of 25°. The specific morphology of anatomic moulds grants permanent occlusal contacts with a consequent decrease of lateral thrust and an increased prosthesis stability. The natural appearance of the tooth, characterized by deep sulcuses, enables better mastication and gives the prosthesis a higher mimetic value.
TECHNICAL moulds are designed with a balanced occlusal plane following specific geometrical rules. The tooth has a cuspidation with a geometrical inclination superior to 20° and flat sliding planes. This kind of design assures an easy and functional articulation.
The WFA moulds have been developed in cooperation with Prof. Giulio Preti and the prosthodontic department of the Dental School of Turin University, follow the assembly philosophy in bilateral balanced occlusion of Prof. Gerber: the pit of the first lower molar presents a large functional area of around 2 mm, which guarantees an interference-free occlusion.

MAJOR **AF COMP**

Stratification with composite enamel and inner layers in acrylic resin.



MAJOR AF COMP
VENEERING TEETH
MAJOR PLUS COMP TEETH

MATERIALS AND STRATIFICATIONS

The MAJOR AF COMP veneer facings and the MAJOR PLUS COMP teeth are made with a multilayer technique. The realization of the outer layer with a high quality composite material grants an optimal resistance to abrasion. In this way patients are provided with a high protection of the prosthesis during chewing and greater dimensional stability.
The inner layers are made of acrylic resin to ensure a perfect adhesion with the other materials through the use of appropriate bonding agents.

MAIN FEATURES

- Greater abrasion resistance than acrylic resin teeth
- Lower costs than with porcelain teeth
- Improved compatibility with opposing teeth (compared with porcelain teeth)

SHADE GUIDE

PRODUCT	SHADES / REFERENCE
MAJOR AF LINK COMPOSITE DENTINE FLOW	LL, L, M, D
MAJOR AF LINK D	L, M, D
MAJOR AF LINK COMPOSITE PASTE OPAQUER	L, M, D
MAJOR AF LINK D	CLEAR
MAJOR AF LINK C BONDOPAQUER	OC-PINK
MAJOR AF LINK C GENGIVE PASTE	PM, PD
MAJOR AF LINK C GENGIVE FLOW	FM

SHADES COMBINATION CHART

PRODUCTS SHADES	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C2	C3	D2	D3
MAJOR AF LINK COMPOSITE PASTE OPAQUER	L	L	M	M	M	L	M	M	D	M	D	L	D
MAJOR AF LINK D	L	M	M	D	D	L	M	D	D	M	D	M	D
MAJOR AF LINK COMPOSITE DENTINE FLOW	LL	LL	L	M	M	L	LL	L	L	D	D	D	D

COMPONENTS

Artificial teeth and composite veneer facings

MAJOR AF COMP VENEERING TEETH

Veneer facings in composite material for aesthetic restorations of frontal elements and vestibular/ occlusal veneerings.
Moulds: the veneer facings are available in 10 upper anterior and 4 lower anterior moulds. Posterior elements are available in 6 different Technical, Anatomical and WFA moulds.
Shades: A1/D4
Codes: T6111 (Anteriors) / T6112 (Posteriors).

MAJOR PLUS COMP TEETH

Artificial teeth in composite or acrylic material suitable for combined prosthesis on implants.
Moulds: available in 10 upper anterior and 4 lower anterior moulds.
Posterior teeth are available in 18 different Technical, Anatomical and WFA moulds.
Shades: A1/D4
Code: T2031 (Anterior) / T2032 (Posterior).

MAJOR **AF LINK D**
PRODUCTS LINE

LIGHT

Major AF Link D
Content: 100 gr
Code: B4510-L

MEDIUM

Major AF Link D
Content: 100 gr
Code: B4510-M

DARK

Major AF Link D
Content: 100 gr
Code: B4510-D

INCISAL CLEAR

Major AF Link D
Content: 100 gr
Code: B4520

LIQUID

Major AF Link D
Content: 100 ml
Code: B4530

MAJOR AF LINK D - KIT

Code: B4500

MAJOR **AF LINK C**

COMPOSIT PRODUCTS LINE

METAL PRIMER

Major AF Link C Metal Primer
Content: 5 ml
Code: B4551

BONDING

Major AF Link C Bonding
Content: 7 ml
Code: B4553

BONDOPAQUER

Major AF Link C
Bondopaquer OC-Pink
Content: 3 g
Code: B4552

DENTINE FLOW

Major AF Link Composite Dentine Flow Extra-Light, Light, Medium e Dark
Content: 3 g + 10 tips
Codes: B4511-LL / B4511-L / B4511-M / B4511-D

PASTE OPAQUER

Major AF Link Composite Paste Opaquer Light, Medium e Dark
Content: 3 g
Codes: B4521-L / B4521-M / B4521-D

INCISAL FLOW

Major AF Link C
Incisal Flow Clear
Content: 3 g + 10 tips
Code: B4515-C

GENGIVE FLOW

Major AF Link C
Gengive Flow Medium Pink
Content: 3 g + 10 tips
Code: B4564-FM

GENGIVE PASTE

Major AF Link C Gengive Paste Medium Pink e Dark
Content: 5 g
Codes: B4564-PM / B4564-PD

MAJOR **AF LINK**
PROTOCOL

PRE-TREATMENT OF THE METALLIC STRUCTURE

• Sandblast the metallic structure with 120 µm aluminium dioxide at 2-3 bar.
• Vaporize to remove any residual material from the surface of the structure. Brush the **MAJOR AF LINK C METAL PRIMER** (Ref. B4551) with the minimum thickness coat and allow the product to dry in the air for at least 2 minutes.
• Brush a thin and homogeneous layer of **MAJOR AF LINK C PASTE OPAQUER** (Ref. B4521) in the upper area of the structure where the tooth is to be fixed.
• Light polymerization for 180 seconds with 310-500 nm wave length.
• Apply a second thin layer of Paste Opaquer. Take care not to have stagnation areas.
• Light polymerization for 180 seconds with 310-500 nm wave length.
• Apply more layers if needed, following the above procedure.

PRE-TREATMENT OF THE FIBERGLASS STRUCTURE

• Sandblast the fiberglass structure with 120 µm aluminium dioxide, 2-3 bar.
• Vaporize to remove any residual material.
• Activate the surface with a layer of monomer **MAJOR AF LINK D LIQUID** (Ref.B4530).
• Before fixing the teeth allow the product to dry in the air or dry with oil free compressed air.
• It is not necessary to use Metal Primer and Opaquer.

PRE-TREATMENT OF THE CARBON STRUCTURE

• Sandblast the carbon structure with 120 µm aluminium dioxide, 2-3 bar.
• Clean with ethyl alcohol and oil free compressed air.
• Use a universal adhesive to bond the carbon fiber with the composite.
• Brush it over the entire surface of the structure.
• Brush **MAJOR AF LINK C PASTE OPAQUER** (Ref. B4521) on the upper part of the structure where the tooth is to be fixed.
• Lay well the product.
• Light polymerization for 180 seconds with 310-500 nm wave length.
• Apply a second, thin layer of Paste Opaquer. Take care not to create any stagnation area.
• Light polymerization for 180 seconds with 310-500 wave length
• Apply more layers, if needed, following the procedure.
• It is not necessary to use the Metal Primer.

PRE-TREATMENT OF PEEK STRUCTURE (POLYETHER-ETHER-KETONE)

• Follow the instructions provided by the product manufacturer until completion of the opacification of the structure.

FIXING OF THE AESTHETIC VENEERING TEETH TO THE STRUCTURE
(valid for any type of structure)

• Sandblast the inner area and the cervical-vestibular area of the MAJOR AF COMP (Ref: T611-T6112) aesthetic veneering teeth, with a 120 µm aluminium dioxide at 2-3 bar.
• Vaporize to clean.
• Position the veneering tooth in the previously created silicone key.
• Activate the inner part of the veneering tooth with **MAJOR AF LINK D LIQUID** (Ref: B4530) monomer.
• Mix **MAJOR AF LINK D POWDER** and **MAJOR AF LINK D LIQUID** for 30 seconds (proportion: 1,85g of powder with 1ml of liquid; empirically, 2,5 powder parts to 1 of liquid).
• Pour the mixture into the syringe and apply the resin to the inner part of the veneering tooth, which is correctly positioned on the silicone key, also apply it on the corresponding area of the structure where the tooth is to **MAJOR AF LINK D LIQUID** be fixed.
• Position the silicone key on the model, polymerize with a thermopress at 45 °C for 15 minutes at two bar.
• Remove the silicone key from the model and take off the exceeding material.

MODELLING OF THE TOOTH USING THE COMPOSITE MAJOR AF LINK C

• Apply a thin coat of **MAJOR AF LINK C BONDING** (Ref. B4553) to activate the palatal surface of the veneering teeth and the surface of the structure to treat.
• Light polymerization for 90 seconds with 310-500 nm wave length.
• Model the palatal anatomy of the veneering tooth with the **MAJOR AF LINK C DENTINE FLOW** (Ref. B4511).
• Light polymerization for 180 seconds with 310-500 nm wave length.
• Complete the incisal/palatal area of the tooth with the **MAJOR AF LINK C INCISAL CLEAR** (Ref.B4520).
• Light polymerization as previously.
• After building up it is advisable to make a cycle of final polymerization.
• Apply polymerization for 10 minutes with 310-500 nm wave lenght.
Note: During the layering of the masses, the polymerization creates a thin dispersion layer on the surface which must not be removed. Should it be removed apply again some Major AF Link C Bonding and light cure following the procedure.

MODELLING OF THE TOOTH WITH THE MAJOR AF LINK D RESIN

• Activate the surface to be treated with **MAJOR AF LINK D LIQUID**.
• Mix **MAJOR AF LINK D POWDER** and **MAJOR AF LINK D LIQUID** for 30 seconds (proportion: 1,85g of powder with 1ml of liquid; empirically: 2,5

powder parts to one of liquid) and apply a layer of dentine with a spatula or a brush. Follow the same procedure with **MAJOR AF LINK D INCISAL** REF. B4520 until completion of the palatal anatomy.

- Polymerize in thermopress at 45°C for 15 minutes at 2 bar.
- Finish and polish following the routine procedure.

MODELLING OF THE GENGIVE USING THE COMPOSITE MAJOR AF LINK C

PROCEDURE FOR THE METAL STRUCTURE OR CARBON STRUCTURE OR PEEK STRUCTURE

- Sandblast the lower part of the structure with 120 µm aluminium dioxide at 2.3 bar and vaporise to clean it.
- Apply a thin and homogeneous layer of **MAJOR AF LINK C BONDOPAQUER** Pink (Ref. B4552).
- Light polymerization for 180 seconds with 310-500 nm wave length.
- Apply a second thin layer taking care not to create any stagnation area.
- Light polymerization for 180 seconds with 310-500 nm wave length.
- Apply more layers if needed.
- Model the gingival anatomy using **MAJOR AF LINK C GENGIVE PASTE** (Ref. B4564P) and/or **MAJOR AF LINK C GENGIVE FLOW** (Ref. B4564F).
- Apply light polymerization for 180 seconds with 310-500 nm wave length.
- During the layering of the masses, the polymerization creates a thin dispersion layer on the surface which must not be removed. Should it be removed apply again the bonding and light cure again following the procedure.
- After building up it is advisable to make a cycle of final polymerization. Apply polymerization for 10 minutes with 310-500 nm wave length.
- Remove the dispersion layer on the surface using ethyl alcohol and cotton wool, polish following the routine procedure.

PROCEDURE FOR THE FIBERGLASS STRUCTURE

- Sandblast the lower part of the fiberglass structure with 120 µm aluminium dioxide at 2-3 bar and vaporise to clean it.
- Apply a thin layer of **MAJOR AF LINK C BONDING** (Ref.B4553).
- Apply light polymerization for 180 seconds with 310-500 nm wave length.
- Model the gingival anatomy using **MAJOR AF LINK C GENGIVE PASTE** and/or **MAJOR AF LINK C GENGIVE FLOW**.
- Light polymerization for 180 seconds with 310-500 nm wave length.
- During the layering of the masses, the polymerization creates a thin dispersion layer on the surface which must not be removed. Should it be removed apply again the Bonding and light cure again following the procedure.
- After building up it is advisable to make a cycle of final polymerization.
- Apply polymerization for 10 minutes with 310-500 nm wave length.
- Remove the dispersion layer on the surface using ethyl alcohol and cotton wool, polish following the routine procedure.

MODELLING OF THE GENGIVE USING THE RESIN FOR PROSTHESIS

PROCEDURE FOR THE METAL STRUCTURE - CARBON STRUCTURE AND PEEK STRUCTURE

- Sandblast the lower part of the structure with 120 µm aluminium dioxide, 23 bar.
- Vaporize to clean.
- Apply a thin and homogeneous layer of **MAJOR AF LINK C BONDOPAQUER** Pink (Ref. B4552) .
- Light polymerization for 180 seconds with 310-500 nm wave length.
- Apply a second thin layer of Bondopquer Pink taking care not to create any stagnation area.
- Light polymerization for 180 seconds with 310-500 nm wave length.
- Activate with the monomer: the cervical area of the tooth and the previous polymerized resin surface that will come into contact with the gingival resin.
- Mix in a mortar powder and liquid of resin for prosthesis following the manufacturer's instructions and proceed with the processing according to the technique used.
- After polymerization remove the silicone key and take off the the exceeding material.
- Finish and polish following the routine procedure.

PROCEDURE FOR THE FIBERGLASS STRUCTURE

- Sandblast the lower part of the structure with 120 µm aluminium dioxide, 2-3 bar.
- Vaporize to clean.
- Activate with the monomer: the cervical area of the tooth and the previously polymerized resin surface that is to come into contact with the gingival resin.
- Mix powder and liquid of resin for prosthesis following the manufacturer's instructions and proceed with the processing according to the technique used.
- After polymerization remove the silicone key and take off the any exceeding material.
- Finish and polish following the routine procedure.

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