



**ESTHETICS**



**PRODUCT CATALOG**





# The trademark of your smile.

Proudly Brazilian and present in more than 100 countries, FGM is a pioneer in the manufacture of whitening gels in Brazil and synonymous with global excellence with the renowned Whiteness line.

Its broad portfolio exceeds 400 products in various applications, such as whitening gels, biomaterials, implants, composites, adhesives, cements, fiberglass posts, and finishing and polishing materials.

Founded in 1996 on solid research and development bases, FGM operates with cutting-edge technology and science applied to its processes, creating and offering safe and differentiated solutions for oral and esthetic rehabilitation from A to Z. To this end, it invests heavily in partnerships with renowned Brazilian and international professors, universities, and research centers.

At FGM, the future is now, and it is built based on new concepts that associate scientific foundation and innovation, breaking paradigms, anticipating market demands with original solutions, and questioning old patterns.

It involves the even more significant challenge of being the trend, to be recognized as one of the leading references in its sector, marked by boldness and courage in not only moving ahead but, especially, going beyond.



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Whiteness Perfect

16



OVER  
2.5 MILLION  
WHITENING SESSIONS WITH  
**Whiteness**  
PER YEAR ALL AROUND  
THE WORLD



# THE LEADING AND MOST COMPLETE BRAND ON THE MARKET!

**Present in more than 100 countries**, the Whiteness line is recognized for its quality and safety, proven by numerous scientific studies throughout its more than 28 years of history.

*"Of all the whitening agents that are on the dental market, **the Whiteness line is the one that has the most scientific backing for efficacy and safety.**"*



Prof. Dr.  
**Alessandra Reis**



**Get to know**  
the complete line by  
accessing the QR  
Code on the side.

[fgmdentalgroup.com](http://fgmdentalgroup.com)





# Whiteness Perfect

10%, 16%, and 22% carbamide peroxide.

Pioneering and leadership since 1996

**1<sup>ST</sup> BRAZILIAN WHITENING GEL**



**5X AWARDED**  
THE BEST TAKE-HOME WHITENING GEL



**Best desensitizing package:** potassium nitrate and fluorine.



**High water content:** keeps teeth hydrated, reducing the risk of developing sensitivity.



**Daily use time: 10% and 16%:** 3 to 4 hours per day. **22%:** 1 hour per day.



Maximum effectiveness in 3 different concentrations: **10%, 16% and 22%.**



**Safety:** pH close to neutral and excellent viscosity.



Present in **more than 100 countries**



European cosmetic certification - Obelis for concentrations 10% and 16%

“For over 15 years, I have trusted Whiteness Perfect and confidently claim it is an excellent whitening gel. Its efficacy in the whitening treatment is remarkable, providing consistent results. The trust I maintain in this product reflects its quality and the excellence it provides.”

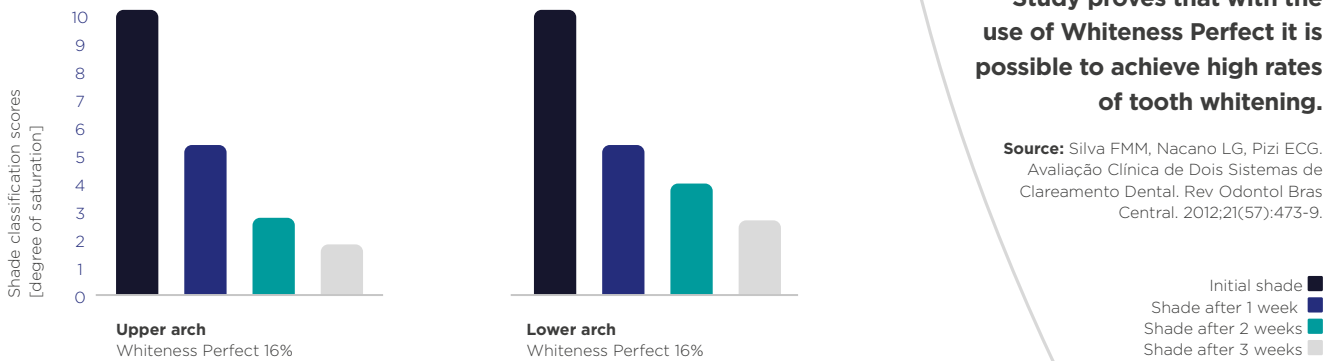


Prof. Dr. Shizuma Shibata



## SCIENTIFIC EVIDENCE

Shade changes at different times of the evaluation for the whitening agent in the upper and lower arches.



**Study proves that with the use of Whiteness Perfect it is possible to achieve high rates of tooth whitening.**

**Source:** Silva FMM, Nacano LG, Pizi ECG. Avaliação Clínica de Dois Sistemas de Clareamento Dental. Rev Odontol Bras Central. 2012;21(57):473-9.

## CLINICAL CASE

**Author:** Prof. Dr. Maristela Lobo.



Initial appearance.



Final appearance.

## COMMERCIAL PRESENTATION

\*Check product availability in your country.



### 10% and 16% Kit

**Content:** 5 syringes with 3g of gel each (15g of gel in the kit), 2 dental tray plates, tray case, and tips.



### 22% Kit

**Content:** 4 syringes with 3g of gel each (12g of gel in the kit), 2 dental tray plates, tray case, and tips.



### 16% Mini Kit

**Content:** 3 syringes with 3g of gel each and tips.



### Bulk

**Content:** 50 syringes with 3g of gel each, individually packed, in the 10%, 16% or 22% concentrations.



# White Class

6%, 7.5%, and 10% hydrogen peroxide.

White teeth **with shorter time of daily use**



“The result is fantastic. With great comfort, one can whiten their patient’s teeth in a short time. Indeed, White Class is an option of extreme excellence for the take-home whitening technique.”

Prof. Dr. Fabio Sene



**Best desensitizing package:** potassium nitrate and fluoride.



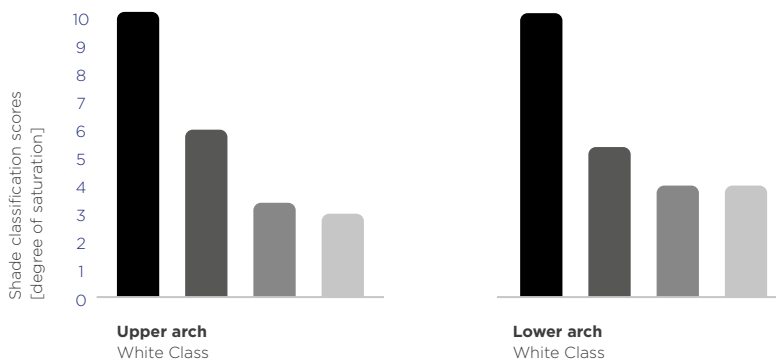
**Presence of calcium:** prevents demineralization.



**Shorter time of daily use:**  
**6%:** 1h 30 minutes per day.  
**7,5%:** 1 hour per day.  
**10%:** 30 minutes per day.

## SCIENTIFIC EVIDENCE

Shade changes at different times of the evaluation for the whitening agent in the upper and lower arches.



**Study proves that with White Class it is possible to achieve high rates of dental whitening.**

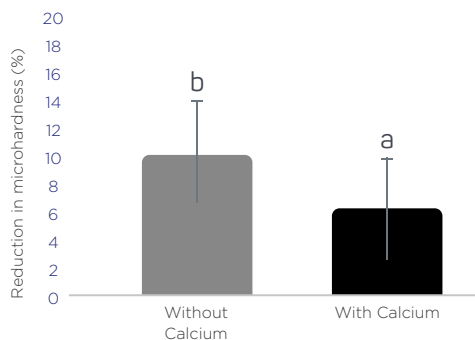
**Source:** Silva FMM, Nacano LG, Pizi ECG. Avaliação Clínica de Dois Sistemas de Clareamento Dental. Rev Odontol Bras Central. 2012;21(57):473-9.

Initial shade ■  
 Shade after 1 week ■  
 Shade after 2 weeks ■  
 Shade after 3 weeks ■

Shade changes at different times of the evaluation for the whitening agent in the upper and lower arches.



European cosmetic certification - Obelis for the 6% concentration



Results show that the microhardness of dental enamel treated with White Class with calcium presents less reduction compared to gels without calcium, which makes dental whitening an even more conservative procedure.

Source: Prof. Dr. Marcelo Giannini - FOP - Unicamp - Brazil.

## CLINICAL CASE

Author: Prof. Dr. Felipe Rossi.



Initial appearance.



Final appearance.

### COMMERCIAL PRESENTATION

\*Check product availability in your country.



#### 7,5% Kit

**Content:** 4 syringes with 3g of gel each, 1 tray case, 1 cosmetic bag, and tips.



#### Bulk

**Content:** 50 syringes with 3g of gel each, individually packed, in the 6%, 7.5% or 10% concentrations.





# Whiteness HP Blue

35% hydrogen peroxide.

Greater practicality,  
**lower sensitivity**



“Whiteness HP Blue has alkaline and stable pH (40 min), which allows whitening without the need to change the gel in the same session and with very low sensitivity levels.”

Prof. Dr. Alessandro Loguercio



**Presence of calcium:** prevents the demineralization of the tooth structure.



**Alkaline and stable pH:** less peroxide diffusion to the pulp, which prevents tooth sensitivity.



**Single application per session:** up to 40 minutes.

## CLINICAL CASE

Author: Prof. Dr. Helena Klemba.



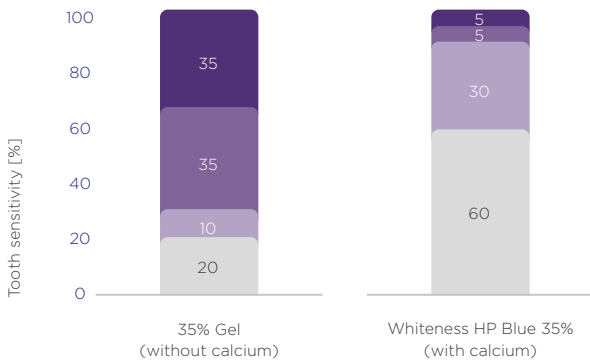
Initial appearance.



Final appearance.

# SCIENTIFIC EVIDENCE

## Tooth sensitivity [%]

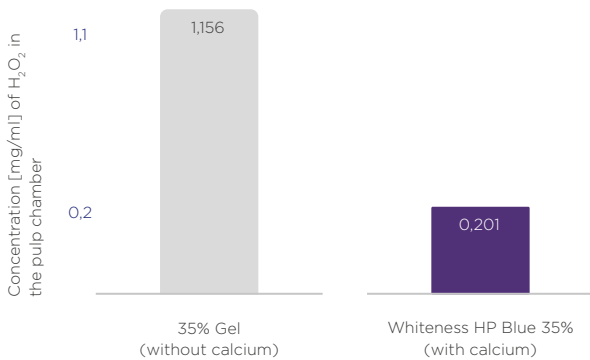


**90%**  
of patients with no or minor sensitivity when using Whiteness HP Blue.

Source: Stella Kossatz, Gislaïne Martins, Alessandro Dourado Loguercio, and Alessandra Reis JADA 2012; 143(12): e81-e87.

Severe  
Moderate  
Mild  
None

## Concentration [mg/ml] of H<sub>2</sub>O<sub>2</sub> in the pulp chamber

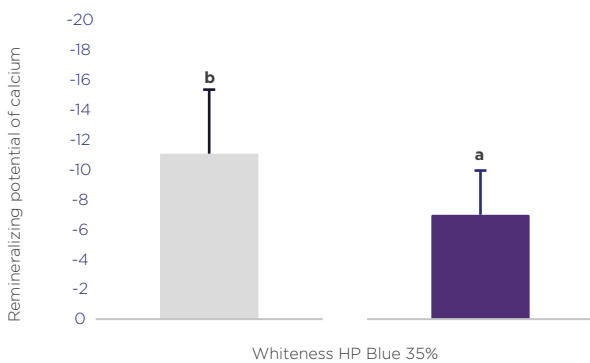


The in vitro study with human premolars demonstrated that a low amount of H<sub>2</sub>O<sub>2</sub> was found in the pulp after using Whiteness HP Blue with calcium, which verifies and explains the low sensitivity caused by the product.

Source: Mena-Serrano AP, Parreiras SO, do Nascimento EMS, Borges CPF, Berger SB, Loguercio AD, Reis A. Operative Dentistry, 2015, 40-2, E76-E82.

Without calcium  
With calcium

## Remineralizing potential of calcium



The whitening gel containing calcium showed a lower degree of dental demineralization.

Source: Prof. Dr. Marcelo Giannini Unicamp - SP.

Without calcium  
With calcium

## COMMERCIAL PRESENTATION

\*Check product availability in your country.



### Kit

**Content:** 6 sets of syringes (1.2 g per set – 7.2 g of gel in total), 1 Neutralize with 2g, 1 Top dam with 2g, 6 syringe coupling devices, and tips



### Mini Kit

**Content:** 1 set of syringes (thickener and whitening gel) with 1.2g of gel in total, 1 Top dam syringe with 1g, 1 syringe coupling device, and tips.

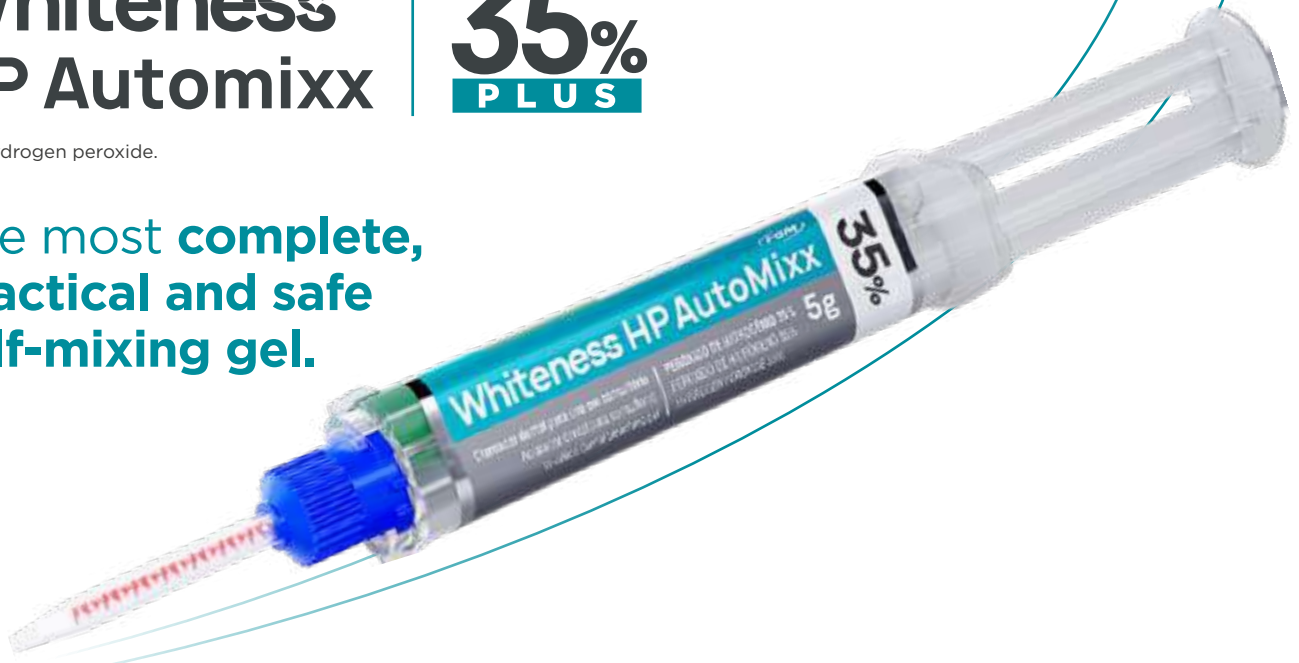


# Whiteness HP Automixx

# 35% PLUS

35% hydrogen peroxide.

The most **complete, practical and safe self-mixing gel.**



**Alkaline and stable pH:** prevents tooth sensitivity.



**Practicality and speed:** single application of up to 50 minutes in contact with teeth per session, with no need to be changed.



**Mixing tip:** practicality that allows direct application.



**Presence of calcium:** remineralizing action.



**High yield:** yields up to 4 applications (upper and lower arches).



**Heat blocker:** prevents tooth overheating when using light sources.

## CLINICAL CASE

Author: Prof. Dr. Luis Fernando Tenfen.



Initial appearance.



Final appearance.

## INDICATIONS

Whitening of vital teeth using the in-office whitening technique.

## COMMERCIAL PRESENTATION

\*Check product availability in your country.



### Kit

**Content:** 1 double-body syringe with 5h of gel, 5 mixing tips, 1 Top dam with 2g, tips, and 1 Neutralize with 2g.



### Mini Kit

**Content:** 1 double-body syringe with 2g of gel, 2 mixing tips, 1 Top dam with 1g, and tips.

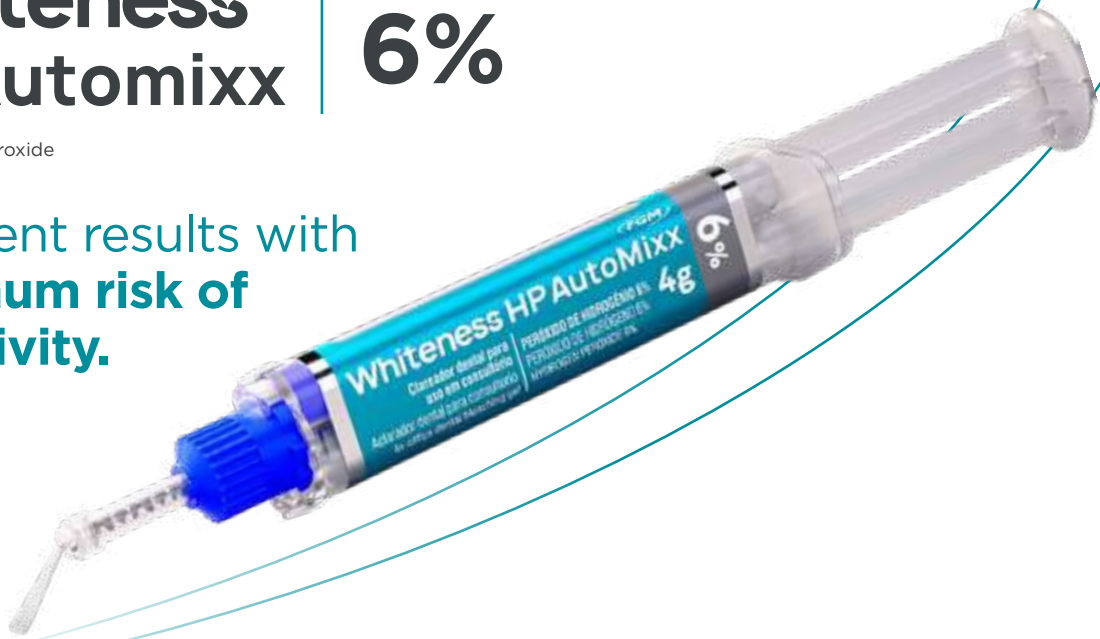




# Whiteness HP Automixx 6%

6% hydrogen peroxide

Excellent results with **minimum risk of sensitivity.**



**In-office whitening gel:** total professional control of the protocol and results.



**Safe:** the low concentration of hydrogen peroxide reduces sensitivity level.



**Agility:** interval of 2 to 3 days between sessions, according to professional evaluation.



**Alkaline and stable pH:** up to 50 minutes in contact with teeth in a single session.



**Gingival barrier:** optional use.



**Brush tip:** allows the application of a thin, homogeneous gel layer.

## CLINICAL CASE

**Author:** Prof. Dr. Juliana Lopes de Sá.



Initial appearance.



Final appearance.

## INDICATIONS

Whitening of vital teeth exclusively at the dental clinic. It is recommended for the product to be used associated to supervised at-home whitening (combined whitening technique).

## COMMERCIAL PRESENTATION

\*Check product availability in your country.



### Refill

**Content:** 1 double-body syringe with 4g of gel, 4 mixing tips, and 4 brush tips.





# Whiteness HP Maxx

35% hydrogen peroxide.

Versatile and practical



**No waste:** use according to the need of each case.



**Safety:** the gel exchange keeps the pH of the product safe against enamel demineralization.



**First whitener on the brazilian market with heat blocker:** prevents tooth overheating when using light sources.



**Color change:** visual indication of the chemical action.

## CLINICAL CASE

Author: Dr. Felipe Rodrigues.



Initial appearance.



Final appearance.

### COMMERCIAL PRESENTATION

\*Check product availability in your country.



#### Kit for 18 applications

**Content:** 1 bottle with 10g of hydrogen peroxide, 1 bottle with 5g of thickener, 1 Top dam with 2g, 1 Neutralize with 2g, 1 spatula, 1 container for gel preparation, and tips.



#### Mini kit for 6 applications

**Content:** 1 bottle with 4g of concentrated hydrogen peroxide, 1 bottle of thickener with 2g, 1 syringe of Top dam with 1g, 1 Neutralize with 2g, 1 spatula, 1 container for gel preparation, and tips.



# Whiteness HP

35% hydrogen peroxide.

**Pioneer system**  
in teeth whitening



**Safety:** the gel exchange keeps the pH of the product safe against enamel demineralization.



**No waste:** use according to the need of each case.



**Color change:** visual indication of the chemical action.

## CLINICAL CASE

Author: Dr. Alexia Suemi Nakashima.



Initial appearance.



Final appearance.

## COMMERCIAL PRESENTATION

\*Check product availability in your country.



### Kit for 18 applications

**Content:** 1 bottle with 10g of hydrogen peroxide, 1 bottle with 5g of thickener, 1 Top dam with 2g, 1 Neutralize with 2g, 1 spatula, 1 container for gel preparation, and tips.



### Mini kit for 6 applications

**Content:** 1 bottle with 4g of concentrated hydrogen peroxide, 1 bottle of thickener with 2g, 1 Neutralize with 2g, 1 spatula, 1 container for gel preparation.





# Whiteness Super-endo

37% carbamide peroxide for non-vital teeth using the walking bleach technique.



**Easy removal:** good affinity with water.



**Ready for use:** no manipulation required.



May be associated with in-office whiteners.

## COMMERCIAL PRESENTATION

### Kit

**Content:** 1 syringe with 3g of gel and tips.



# Whiteness Perborato

Whitening agent based on sodium perborate and 20% hydrogen peroxide for non-vital teeth.



**Excellent consistency:** paste with optimal viscosity after manipulation.



**Alkaline pH:** minimizes side effects.



**Versatility:** manipulation in the proportions optimal for use (2:1 or 1:1)..

## COMMERCIAL PRESENTATION

### Kit

**Content:** 1 bottle of sodium perborate powder with 10g, 1 bottle of 20% liquid hydrogen peroxide with 8g, 1 powder doser, and 1 spatulation block.



# Whiteness RM

Dental stain remover by microabrasion based on 6% hydrochloric acid and silicon carbide.



**Ready for use:** no manipulation required.



**Efficiency:** permanent removal of superficial tooth stains.

## COMMERCIAL PRESENTATION

### Kit

**Content:** 1 syringe with 2g, 1 spatula, and tips.



# Top dam

Photopolymerizable resin for relative gum isolation.



**Gingival barrier with excellent sealing power.**



**Resilient resin:** easy application and increased comfort.



**Easy removal:** greater practicality.

## COMMERCIAL PRESENTATION

### Refill

**Content:** syringe with 2g and tip, available in colors green and blue.



# Desensibilize KF

Desensitizer based on potassium nitrate and sodium fluoride.



**Scientifically proven  
EFFECTIVENESS**



**Potassium nitrate + sodium fluoride:** desensitizing action.



**Desensibilize KF 0.2%:** it may be given to the patient for take-home application in the trays.



**Desensibilize KF 2%:** exclusive use of Dental Surgeons, for in-office application.



The desensitizer with the highest number of scientific studies attesting to its effectiveness.\*

## COMMERCIAL PRESENTATION

### Refill

**Content:** 1 syringe with 2.5 g in the 0.2% or 2% concentrations and tips.

\*Martini, E C et al. "Topical application of a desensitizing agent containing potassium nitrate before dental bleaching: a systematic review and meta-analysis." Clinical oral investigations vol. 25.7 (2021): 4311-4327. doi:10.1007/s00784-021-03994-6

## NEW PRODUCT



## QUAZAR

Explore this universe of **technology, energy, and efficiency!**

Quazar counts on modern technology and design, with wide spectrum LED to produce high intensity light between 385 and 515 N.m, capable of polymerizing all photopolymerizable dental materials. It allows for the precise management of the time in each photoactivation cycle, allying versatility and ergonomics in the most diverse clinical scenarios.

**5**  
YEARS  
WARRANTY\*

\*For the handpiece + LED head.



NEBULA ROSE  
& GRAY

STAR SILVER

ROCKET GRAY  
& SILVER



#### Digital display

It allows for monitoring the battery charge and the different working modes practically and intuitively.



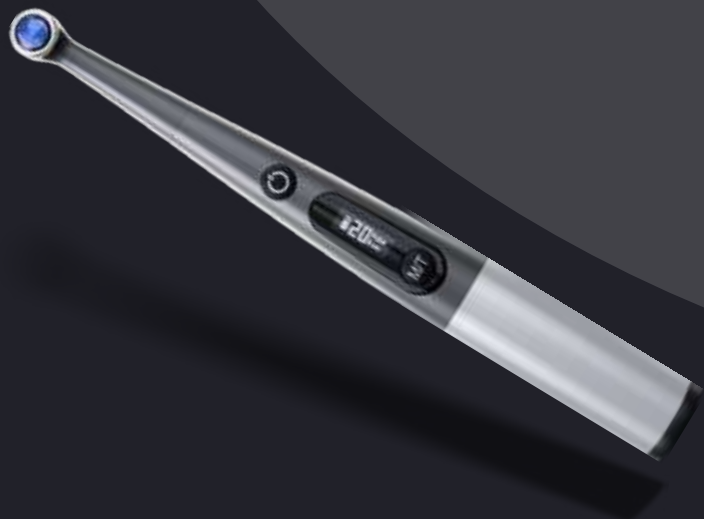
#### 7 modes of use

Normal, High, Turbo, Ortho, Soft, Pulse, and Check (diagnostic).  
**Versatility applied to various clinical situations.**



#### Lightweight and ergonomic

Easy access to all areas of the oral cavity.





**Integrated radiometer**  
Makes it possible to monitor the irradiance emitted by the device accurately and reliably.



**Charging base**  
Practical and modern support for fast induction charging.



**Long-lasting stable battery**  
Its lithium-ion battery offers adequate working time with the same efficiency from start to finish.



**Heat management**  
It allows safe photoactivation and controlled temperature dissipation, preventing damage to pulp tissues.



**Rotating LED head**  
Adaptable tip that allows 360° rotation.



**Multiwave**  
Broad-spectrum blue and violet light emitters (LED) that make it possible to photopolymerize any dental restorative material.



**Collimated light beam**  
Uniform and adequate distribution of light. Regardless of the mode of use, it provides complete photoactivation.



**Power**  
1000 to 3000 mW/cm<sup>2</sup>



**SpotCure Lens**  
Magnetic lens that allows point polymerization of small regions and is useful for performing initial polymerization of porcelain veneers and crowns.



**POLYMERIZES ALL PHOTOPOLYMERIZABLE DENTAL MATERIALS**

**CONTENT**

- 01 Handpiece with internal rechargeable lithium battery
- 01 LED head
- 01 Power adapter 100-240-50/60hz 0.4A - 5.0V 1A 5W
- 01 Charging base with radiometer
- 01 SpotCure lens
- 01 Light Shield
- 100 Disposable Barrier Sleeves





# APS

## ADVANCED POLYMERIZATION SYSTEM

The APS technology, an **exclusive development of FGM**, consists of a combination of different photoinitiators that interact with each other and allow amplifying the polymerization capacity that the light of photopolymerizing devices provides.

One of such photoinitiators remains camphorquinone (at a very low concentration), used only to start a chain reaction with the multiplication of free radicals as the sequential propagation occurs.

Thus, camphorquinone was added only as a “trigger” because, as it is sensitized by the light length emitted by all the light-curing devices available on the market, professionals may enjoy all the benefits of APS even using their conventional photopolymerizers without the need to invest in a specific piece of equipment.



### ESTHETICS:

Due to the transparency of most APS photoinitiators, it was possible to develop polymeric materials with high esthetic performance, neutralizing the yellowish coloration of camphorquinone. For example, the premium resin **Vittra APS** and the cement **Allcem Veneer APS** do not present significant color variation before and after photopolymerization. In turn, for chameleon resin **Vittra APS Unique**, the more transparent photoinitiators facilitate chromatic mirroring and make it possible to achieve perfect mimicry. In the case of adhesives **Ambar APS**, **Ambar Universal APS**, and **Ambar Universal APS Plus**, the colorless aspect makes all the difference in cementing veneers and dental contact lenses. In modeling resin **Assist APS Modeling**, the colorless appearance does not change the final color of the restoration.



### LONGER WORKING TIME:

Materials containing the APS system have four times less sensitivity to ambient light than traditional composites. The possibility of calmly performing esthetic restorations with the resin **Vittra APS** and having enough time to insert and sculpt a restoration with **Opus Bulk Fill APS** at the same time, in addition to the simultaneous positioning and cementation of veneers with **Allcem Veneer APS**, are already a reality. And all this with the dental lamp light on!



### CURING DEPTH:

One of the significant qualities of APS is that it imparts a better conversion of monomers into polymers, even at great depths. This property is of paramount importance for all photoactivated composites, but especially in the case of bulk fill composites, **Opus Bulk Fill APS** and **Opus Bulk Fill Flow APS**, the indication of which is the insertion in large increments, guaranteeing clinical longevity to the restorations. In addition, it offers better polymerization standards in high opacity composites such as **Assist APS Opaquer**.



### MECHANICAL PROPERTIES:

As the polymerization depth is enlarged due to the higher degree of conversion of monomers into polymers, there is consequently a better polymerization of the entire chain. This generates a significant increase in all mechanical properties, such as flexural strength and fracture toughness.



# Vittra<sup>APS</sup>

Premium composite.

**Your premium composite,  
with high mechanical and  
esthetic performance  
and the exclusive APS  
technology**






  
**SILICATE**



**BPA  
FREE**

“High resistance, polishing ability and longevity, shade quality, and excellent consistency are indispensable properties of a composite. Vittra APS is a composite of excellence that presents translucency/opacity suitable for enamel and dentin, a differential of this composite.”

Prof. Dr. Leonardo Muniz



**Excellent consistency for handling**, favoring the sculpting of the restorations.



**High polishing performance** and shine longevity.



**High mechanical and esthetic performance.**


 ADVANCED  
POLYMERIZATION  
SYSTEM

APS technology, unique to FGM, consists of an innovative combination of colorless photoinitiators that interact with each other, allowing to amplify the polymerization capacity, positively impacting in several aspects:



Esthetic restorations with a **4x longer working time** than conventional composites\*;



**Shade predictability of the composite even before its photopolymerization** (does not show significant shade variation during polymerization);



Increase in **mechanical properties**.

\*As per testing conducted by Prof. Dr. Rodrigo Reis.

SHERIDAL  
C A

SILICATE

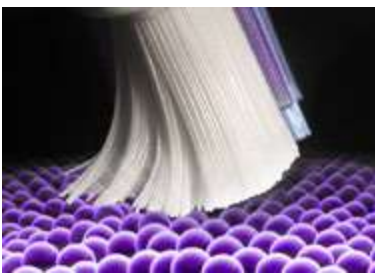
Beauty and resistance, with the strength of spheroidal zirconia silicate. Only Vittra APS has it.



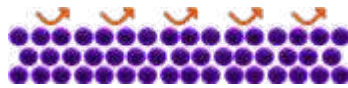
**Increased wear resistance and surface smoothness.**

FGM

Vittra APS



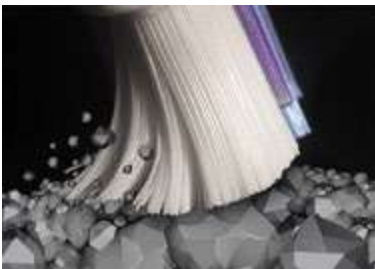
Simulation of brushing over the surface of the Vittra APS composite.



**Spheroidal zirconia particles:**

- ✓ Higher mechanical resistance;
- ✓ Greater solidity to the surface, more efficiently reflecting the forces of wear mechanisms;
- ✓ Ease in obtaining polishing;
- ✓ Shine longevity.

**Other resins**



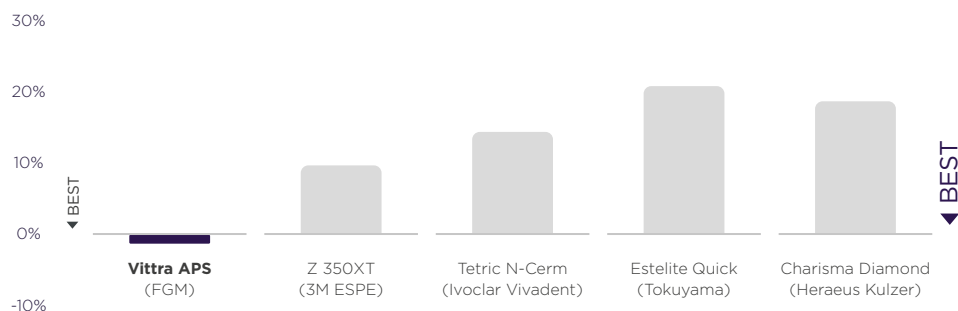
Simulation of brushing on the surface with a non-spheroidal micro-hybrid or nano-hybrid composite.



- ✗ Large defects when they suffer wear;
- ✗ Loss of shine due to increased roughness.

## SCIENTIFIC EVIDENCE

Increased roughness after brushing  
**(50,000 cycles)**



Increased roughness (average in %) after simulated brushing (n = 10).

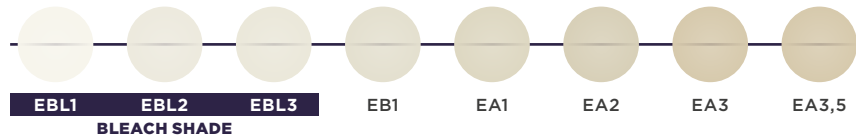
**Source:** Pailover P, Malaquias P, Carvalho E, Gutierrez F, Bauer M, Reis A, Bauer J, Loguercio A. Universidade Estadual de Ponta Grossa (UEPG) e Universidade Federal do Maranhão, 2016.

**Vittra APS was the only composite to show no increase in surface roughness after simulated brushing, demonstrating excellent abrasion resistance and polish maintenance.**

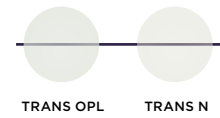
# SHADE SYSTEM

Vittra APS has the shade most commonly used in restorations, whether simple or complex. With eight saturation options, including Bleach shade for whitened teeth, it is the complete solution for natural results and unmatched optical properties.

## ENAMEL

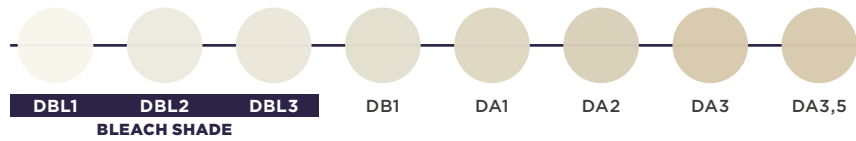


## TRANSLUCENT



Restorations with an incredible natural effect.

## DENTIN



\*Merely illustrative table.

# CLINICAL CASE

Author: Prof. Dr. Renato Voss Rosa.



Initial appearance.



Final appearance.

## COMMERCIAL PRESENTATION

\*Check product availability in your country.



### Essential Kit

**Content:** DA1, DA2, DA3, EA1, and EA2 in syringes with 4g, Trans N in a syringe with 2g, Ambar APS with 6ml, and Condac 37 with 2.5ml.

**It presents the most usual shades for your office.**



### Refill

**Content: Syringes with 4g in shades:** DA1, DA2, DA3, DA3.5, DB1, EA1, EA2, EA3, EA3.5, EB1, EBL1, DBL1, EBL2, DBL2, EBL3, and DBL3.



### Refill

**Content: Syringes with 2g in shades:** Trans OPL and Trans N.



### Capsules

**Content: 20 capsules of 0.2g available in shades:** DA1, DA2, DA3, DA3.5, EA1, EA2, EA3, EB1, E-Bleach, DA0, DA4, DA5, Trans OPL, Trans N.

## INDICATIONS

- Class I, II, III, IV, V, and VI restorations;
- Direct veneers with composites;
- Cementation of tooth fragments;
- Core build-ups.
- Dental splinting;
- Closing or reduction of diastema;
- Tooth shape modification (e.g., conoid teeth);
- Repairs of porcelain or composite;
- Indirect restorations such as inlays, onlays, and veneers.





# Vittra<sup>APS</sup> UNIQUE

Universal chroma composite with capacity to match the tooth shade.



Composite  
and Syringe

## The true chameleon effect.

**SHADE FOLLOWS  
DENTAL WHITENING**



*“The unicromatic composite brings a sensational esthetic result, combining practicality and quality. In addition to being BPA-free, I also highlight the excellent shine, polishing, and ease in the incremental technique.”*

Prof. Dr. Sandra Kalil



### Chameleon Effect:

due to its chromatic reflection characteristics, the composite reproduces the shade of the dental substrate after polymerization. The charges, the well-closed opacity, and the esthetics of the APS system are fundamental to achieving perfect mimetism.



### Unicromatic:

from Bleach to D4 with just one composite shade! It does not require stratification in the vast majority of cases and allows for adopting a simple incremental technique without using different opacity/translucency degrees.



### High esthetics and mechanical resistance:

in addition to having excellent shine and polishing, it has high rates of flexural strength and fracture toughness to withstand the stress resulting from masticatory forces.



### Agility and economy:

it dispenses with shade selection and, therefore, brings more speed to finalizing restorative procedures, increases the productivity of the professional, and reduces the stock of composite shades.

## ADVANTAGES

- Facilitated shade transmission due to the low camphorquinone concentration in the composite composition: the APS system uses more transparent photoinitiators;
- Longer working time under dental lamp/ ambient light;
- Increased mechanical properties.

## THE OPTICAL PROPERTIES OF VITTRA APS UNIQUE ARE DEFINED AFTER ITS POLYMERIZATION:

BEFORE



AFTER



# CLINICAL CASES

Authors: Dr. Thiago Roberto Gemeli, Dr. Bárbara Robaskiewicz, and DPT Arnã Ariel da Costa.



Initial appearance.

Final appearance.

Author: Prof. Dr. Fabio Sene.

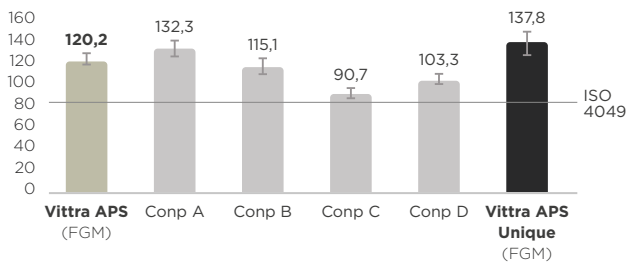


Initial appearance.

Final appearance.

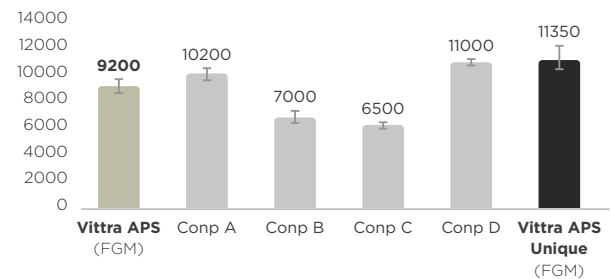
# SCIENTIFIC EVIDENCE

Flexural strength (MPa)\*



Vittra APS Unique presents flexural strength superior to that of most of the competing products analyzed, with a result up to 70% higher than the reference stipulated by standard ISO 4049 (> 80 MPa). **The greater the result, the more significant the ability of the composite to withstand the stress resulting from masticatory forces.**

Modulus of elasticity (MPa)\*



Vittra APS Unique presented a result compatible with that declared in the literature for human dentin (from 11700 to 18300 MPa\*\*) and superior to those of the analyzed competitors, **demonstrating excellent resistance to occlusal forces and proving suitable for all restoration classes.**

\* Internal testing. \*\*Anusavice, K.J; Shen, C; Rawls, H.R. - Phillips Materiais Dentários. 12ª Edição. Rio de Janeiro: Elsevier, 2013.

# INDICATIONS

- Permanent and deciduous teeth;
- Direct restorations on anterior and posterior teeth (classes I, II, III, IV, V, and VI).

# IMPORTANT

**Classe I, II, V, and VI cavities:** in case of darkening, cover the area with dentin resins or opacifier Assist APS Opaquer and proceed with the restoration using the incremental technique with Vittra APS Unique.

**Class III and IV cavities (without a back wall that provides color support):** make a layer that will serve as a background for the restoration and finalize the rest of the volume with Vittra APS Unique incrementally.

# COMMERCIAL PRESENTATION

\*Check product availability in your country.

## Refill

**Content:** Syringe with 4g;  
**One shade for all shades.**



## Capsules

**Content:** Containing 20 capsules of 0.2g;  
**One shade for all shades.**



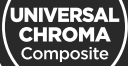


# Vittra<sup>APS</sup>

## UNIQUE FLOW

Universal chroma fluid composite.

The **Chameleon Effect** you know with the **fluidity** that you need


Bisphenol A-free composite and syringe



**Flow:**  
ideal fluidity and easy application.



**Unicromatic:**  
from Bleach to D4 with a single composite shade for anterior and posterior teeth.



**Easy visualization:**  
the opaque shade before polymerization facilitates the visualization of the preparation margins.



**Agility and economy:**  
dispenses with shade selection, increases productivity, and reduces stock.



**The true chameleon effect:**  
unicromatic composites, with a chameleon effect, employ a technology of resinous matrices and balancing of inorganic charges, the optical refractive index of which is similar to that of the dental structure, with a medium degree of opacity (avoids graying or milky appearance).

The optical properties of Vittra APS Unique Flow are defined after its polymerization.

BEFORE



A2



C3



E-bleach

AFTER



## ADVANTAGES

- Facilitated shade transmission due to the low camphorquinone concentration in the composite composition: the APS system uses more transparent photoinitiators;
- Longer working time under dental lamp/ ambient light;
- Increased mechanical properties.

# CLINICAL CASES

Author: Prof. Dr. Shizuma Shibata.



Initial appearance.

Final appearance.

Authors: Dr. Thiago R. Gemeli and Dr. Alexia S. Nakashima



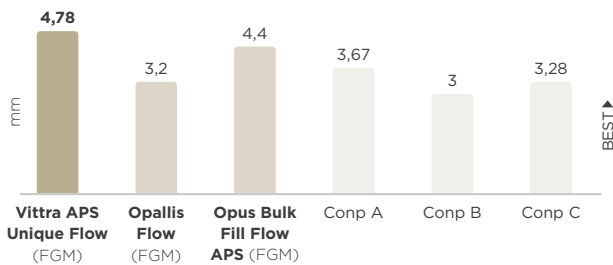
Initial appearance.

Final appearance.

# SCIENTIFIC EVIDENCE

## Curing depth

ISO 4049: Minimum of 1.5 mm

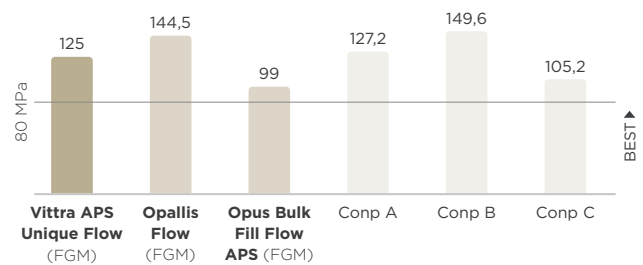


The curing depth of Vittra APS Unique Flow is superior to the top 3 competitors analyzed, an important indicator for the clinical success of the restorations.

Source: Internal testing.

## Flexion

ISO 4049: Minimum of 80 MPa



Vittra APS Unique Flow is well above the reference stipulated by standard ISO 4049 (> 80 MPa), which confirms its ability to withstand the stress resulting from masticatory forces.

Source: Internal testing.

# INDICATIONS

- Base under direct restorations;
- Restoration with minimally invasive cavity preparations (including small occlusal restorations in infraocclusion );
- Pit and fissure sealant;
- Tunnel-type preparations;
- Repair of small defects on the enamel;
- Bonding of tooth fragments;
- Repairs on composite;
- Non-carious cervical lesions;
- Making of attachments for orthodontic aligners.

# IMPORTANT

When there is no back wall to copy or if there is any shade modification on the dental substrate, it is necessary to use a background composite as a shade support for Vittra APS Unique Flow (e.g., opacifier resin Assist APS Opaquer or dentin composite).

## COMMERCIAL PRESENTATION

### Refill

**Content:** syringe with 2g and 10 applicator tips: **One shade for all shades.**







# OPUS BULK FILL

Composite for the single filling of the posterior teeth.

Fill up all the requirements of a **perfect restoration**



**Increments up to 5mm:** restorations 75% faster compared to conventional restorative procedures.



**Dispenses with covering composite:** complete restoration with a single composite.



**Low polymerization shrinkage.**

## ADVANTAGES

- Greater polymerization depth;
- Longer working time for sculpting: stability under ambient and dental lamp light;
- Higher opacity after polymerization.



Not polymerized.



Polymerized.

## INDICATIONS

- Direct restorations in posterior teeth (permanent and deciduous) in increments of up to 5mm, including the occlusal surface;
- Class V restorations (cervical caries, root erosion, wedge-shaped defects)
- Reconstructive build-up
- Base and lining of direct restorations;
- Repair of small defects of the enamel;
- Repair of temporary acrylic and resin materials.

## CLINICAL CASE

Author: Prof. Dr. Rodrigo Reis.



Initial appearance.



Final appearance.

## COMMERCIAL PRESENTATION

\*Check product availability in your country.

### Refill

**Content:** 1 syringe with 4g, in colors **A1, A2 or A3.**



### Capsules

**Content:** Containing 20 capsules of 0.2g:





# OPUS BULK FILL FLOW <sup>APS</sup>

Fluid composite for filling posterior teeth.

## Ideal fluidity for quick restorations



**Increments up to 4mm:** restorations 66% faster compared to conventional restorative procedures.



**Self-leveling:** perfect adaptation to the cavity walls.



**Indicated as a base for restorations:** it should be covered with dense-consistency composite.



**Antigravity action:** ideal for application to upper teeth.

## ADVANTAGES <sup>APS</sup>

- Greater polymerization depth;
- Low polymerization shrinkage.

## CLINICAL CASE

Author: Prof. Dr. Eduardo Vargas.



Initial appearance.



Final appearance.

## INDICATIONS

- Base under direct restorations;
- Small, non occlusal stress-bearing class I restorations according to minimally invasive filling therapy;
- Pit and fissure sealant;
- Tunnel-type preparations;
- Repair of enamel defects;
- Bonding of dental fragments;
- Composite repairs;
- Non-carious cervical lesions;
- Planification of cavity preparation walls;
- Core build-up.

## COMMERCIAL PRESENTATION

### Refill

**Content:** 1 syringe with 2g, in shades **A1, A2 or A3.**



FGM

# Opallis

Composite for anterior and posterior teeth.

**Unbeatable** optical properties, now with **new Bleach shades**



Gold standard technology in Dentistry



**Worldwide presence:** present in more than 55 countries.



**Shade fidelity:** compatible with the Vita Classical® scale.



**Average particle size:** 0.5 microns.



**Excellent consistency:** easy manipulation and application.



**Excellent polishing:** highly esthetic restorations.



**Complete system with 34 shades:** enamel, dentin translucent, extra opaque, and **new Bleach shades** for whitened teeth.

## CLINICAL CASE

Author: Prof. Dr. Fabio Sene



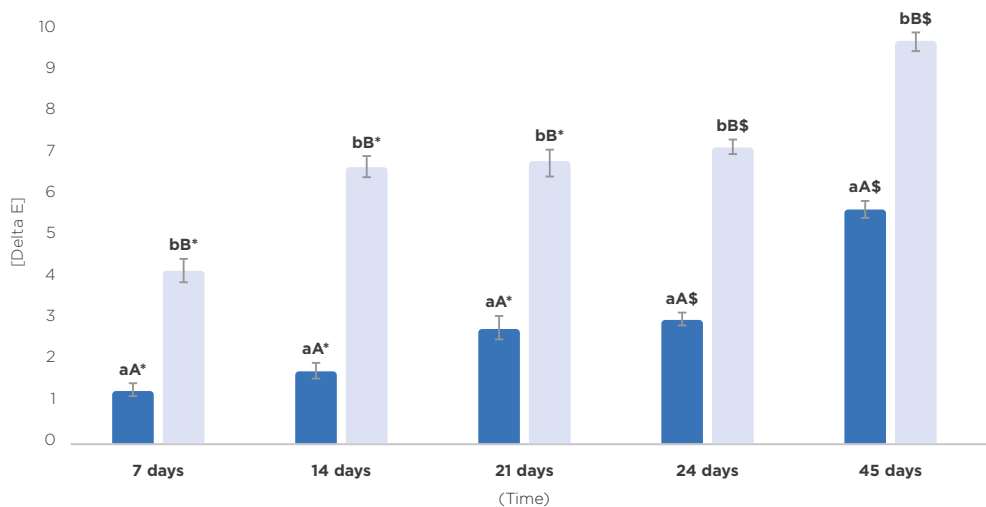
Initial appearance.



Final appearance.

# SCIENTIFIC EVIDENCE

## Shade variation study [Delta E]



**Opallis has less shade variation compared to a competing composite.**

**Source:** Nádia da Rocha SVIZERO, Adriana Regina Cruz Grando de GÓES, Tamires de Luccas BUENO, Vinicius DI HIPÓLITO, Linda WANG, and Paulo Henrique Perlati D'ALPINO. J Appl Oral Sci. 2014 Sep-Oct; 22(5): 373-381.

Opallis (FGM) - Grape juice ■  
Competitor - Grape juice ■

The smaller the Delta E, the higher the shade stability of the composite.

## COMMERCIAL PRESENTATION

\*Check product availability in your country.



### Clinical Kit

**Content:** 8 syringes with 4g each, in shades EA1, EA2, EA3, EB2, DA1, DA2, DA3, and DB2, 5 syringes with 2g each, in the shades D-Bleach, T-Blue, T-Neutral, E-Bleach H, and Opaque Pearl, and 1 Ambar with 4ml.



### Refill

**Content: Syringe with 2g, available in shades:** DA4, DC2, D-Bleach, DBL1, DBL2, DBL3, EA4, EB3, EC2, EC3, E-Bleach H, E-Bleach M, E-Bleach L, EBL1, EBL2, EBL3, T-Blue, T-Neutral, Opaque Pearl, Opaque White, Pediatrics A0.5, and Pediatrics B0.5. **Syringe with 4g, available in shades:** DA1, DA2, DA3, DA3.5, DB1, DB2, EA1, EA2, EA3, EA3.5, EB1, and EB2.



### Basic Kit

**Content:** 5 syringes with 4g each, in shades **EA2, EA3, EA3.5, DA2 and DA3**, and 1 syringe with 2g in shade T-Neutral.



### Capsules

**Content:** 20 capsules of 0.2g available in shades: DA1, DA2, DA3, DA3.5, DB1, DB2, EA1, EA2, EA3, EA3.5, EB1, EB2, DA4, DC 2, D-Bleach, EA4, EB3, EC2, EC3, E-Bleach H, E-Bleach M, E-Bleach L, T-Blue, T-Neutral, Opaque Pearl, Opaque White, Odontopediatrics A 0.5 and B 0.5.

## INDICATIONS

- Restorations of permanent and deciduous teeth;
- Restorations on anterior and posterior teeth of classes I, II, III, IV, V, and VI;
- Direct veneers in composite;
- Cementation of tooth fragments;
- Core build-ups.
- Tooth veneering;
- Closing or reduction of diastema;
- Reattachments (e.g., Conoid tooth);
- Repairs of porcelain or composite.





# Opallis FLOW

Fluid composite for bases, lining, and minimally invasive restorations.



Excellent adaptation to cavity walls: **lower risk of infiltration.**



**Incremental technique:** insert increments of up to 2 mm.

## COMMERCIAL PRESENTATION

### Refill

**Content:** 1 syringe with 2g, available in shades: **A1, A2, A3 (universal), T (translucent), OP, A0.5, B0.5, and OA3.5 (extra-opaque)**, and 5 tips.



# LIS

Composite for anterior and posterior teeth restorations.



Main shades for everyday use, for **enamel, dentin, and translucent effect.**



**Excellent polishing:** ideal esthetic restoration.



**Particle size:** from 14 nm to 1 micron.



**High color stability:** esthetic longevity of the restoration.



**Excellent consistency:** manipulation and application.

## COMMERCIAL PRESENTATION

\*Check product availability in your country.

### Kit

**Content:** 5 syringes with 4g in shades **EA2, EA3, EA3.5, EB2, and DA3** and 1 Ambar with 4ml.



### Refil

**Content:** 1 syringe with 4g, available in shades **EA1, EA2, EA3, EA3.5, EA4, EB1, EB2, EB3, EC2, EC3, Incisal, DA1, DA2, DA3 (Universal), DA3.5, and DB2.**





# Primma<sup>art</sup>

Bis-acryl composite.

## Bis-acryl with the esthetics and polishing of a composite



**More resistance** to fracture and wear.



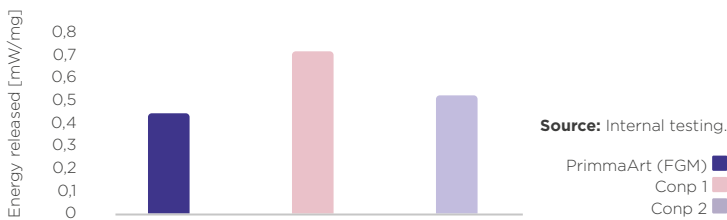
**Excellent esthetics:** high shine and easy polishing.



**Economical tip:** reduces material waste by up to 40%.

## SCIENTIFIC EVIDENCE

Low heat release



### Safe composite for use on vital teeth.

The lower the energy released by the polymerization reaction, the lower the heat produced, decreasing the possibility of causing sensitivity and providing more comfort to the patient.

## INDICATIONS

- Making of provisional inlays, onlays, crowns, veneers, and bridges;
- Making of long-lasting provisionals;
- Mockup technique;
- Refilling of prefabricated restorations made of composite, polycarbonate, or metal.

## COMMERCIAL PRESENTATION

\*Check product availability in your country.

### Cartridge

**Content:** Cartridge with 75g and 10 self-mixing tips. **Compatible with universal dispenser.**

### Tips

**Content:** 5 or 20 self-mixing tips for syringes or cartridges.

### Refill

**Content:** 1 double-body syringe with 7g and 5 self-mixing tips. **Application without the use of a dispenser.**



In colors: A1, A2, A3, B1, and Bleach.

# ASSIST

opaquer

## Surprising masking power



*"FGM Assist line opacifiers are great allies in the day-to-day of clinical dentists; its ideal flow facilitates application, and the excellent opacity allows optimal stratification on darkened substrates."*

Dr. Orlando Reginatto



**High opacity** with excellent performance.



**Proper viscosity and self-leveling** for easy manipulation with a spatula or brush.



**Balanced luminosity,** for opacification with natural results.



**APS technology** guarantees the best polymerization even with high opacity.

## CLINICAL CASE

Author: Dr. Orlando Reginatto



Initial appearance.



Re-opening for graying correction.



Application of the Assist APS Opaquer in color Pink.

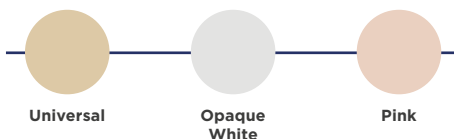


Final appearance.

### Indication for use:

- Masking darkened or stained teeth;
- Masking exposed metallic surface in intraoral repair of metal-ceramic and metal-plastic prostheses;
- Masking of metal posts and cores.

**Simplified shades** to meet the diverse clinical needs



\*Merely illustrative table.

## COMMERCIAL PRESENTATION

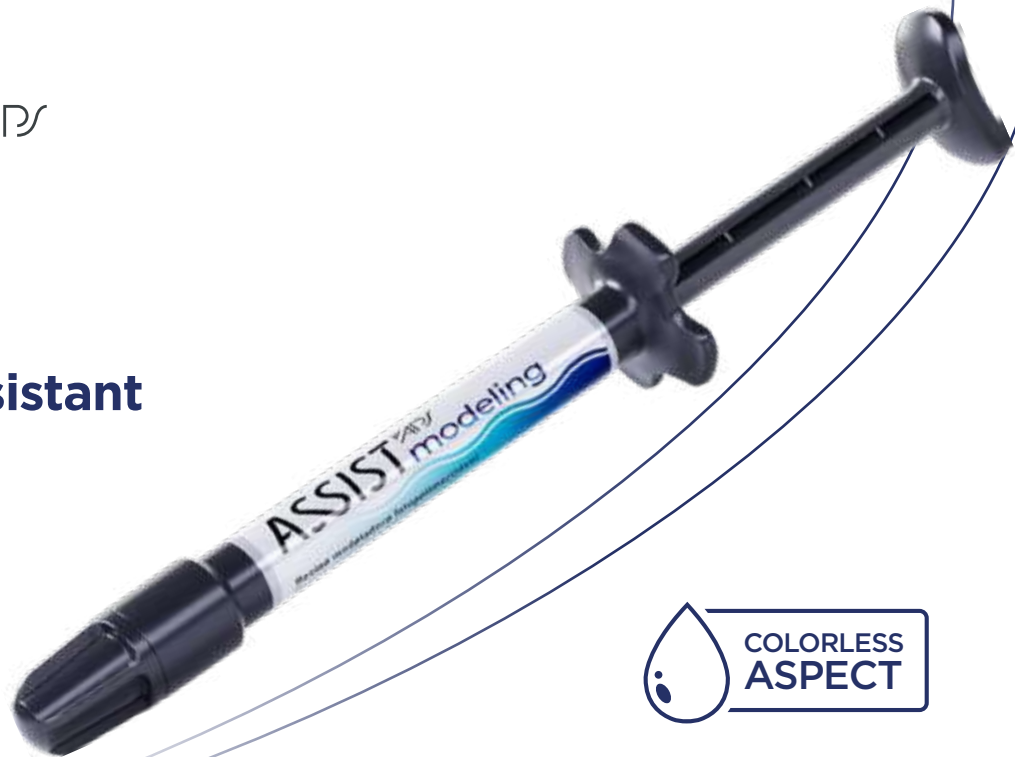
### Refill

**Content:** 1 syringe containing 2g of the product and 5 application tips. Available in shades **Universal, Opaque White, and Pink.**



(FGM) <sup>APS</sup>  
**ASSIST**  
 modeling

**Your best assistant  
 in esthetic  
 restorations**



**COLORLESS  
 ASPECT**



**High fluidity:**  
 optimizes manipulation  
 in esthetic restorations.



**APS technology:**  
 colorless appearance after  
 photopolymerization,  
 without interference in the  
 composite shade.



**Does not alter the  
 physicochemical  
 properties** of the  
 composite.



**Minimizes the formation  
 of bubbles during  
 stratification.**



Before photopolymerization



After photopolymerization: colorless appearance

**COMMERCIAL PRESENTATION**



**Refill**

**Content:** 2 syringes  
 containing 1.5g of the  
 product each and 6  
 application tips.

**Indication for use:**

Recommended to promote the humidification  
 of instruments (brush and spatula) during the  
 composite sculpting stage or when it is desired to  
 smooth the surface in the last layer of composite,  
 before light-curing.





# SILIC • ONE

VPS impression material.

Fall in love  
with the **finest**  
**details**



**Precision in reproducing details.**



**2x more** dimensional stability.



**Practicality.**



Excellent **hydrophilicity.**



Excellent **working time.**



**High resistance** to rupture.



**Vivid colors:** increased visibility.

## WORKING TIME

Technical parameter	Putty Soft	Bite Registration	Heavy Body	Clear Body	Light Body
Type	0	0	1	2	3
Mixture time	30"	-	-	-	-
Total working time	1'30"	20"	1'30"	1'30"	2'15"
Curing time in the oral cavity	3'00"	45"	3'00"	3'00"	3'30"

\*Tip: The mentioned working time considers room temperature (23 °C) and normal air humidity (50%). The time may be shorter at higher temperatures and longer at lower temperatures.

## COMMERCIAL PRESENTATION

### Kit



#### Content:

1 container of Putty Soft base paste with 400g + 1 container of Putty Soft catalyst paste with 400g + 2 Light Body cartridges with 50ml + 12 mixing tips + 12 intraoral tips + 2 dosing spoons.

### Mini Kit



#### Content:

1 container of Putty Soft base paste with 400g + 1 container of Putty Soft catalyst paste with 400g + 1 Light Body cartridge with 50ml + 6 mixing tips + 6 intraoral tips + 2 dosing spoons.

### Putty Soft Refill



#### Content:

1 container of base paste with 400g + 1 container of catalyst paste with 400g + 2 dosing spoons.

### Light Body 1 Refill



#### Content:

1 cartridge with 50ml + 6 mixing tips + 6 intraoral tips.

### Light Body 2 Refill



#### Content:

2 cartridges with 50ml each + 12 mixing tips + 12 intraoral tips.

### Heavy Body Refill



#### Content:

1 cartridge with 50ml + 3 mixing tips.

### Bite Registration 1 Refill



#### Content:

1 cartridge with 50ml + 3 mixing tips.

### Clear Body Refill



#### Content:

1 cartridge with 50ml + 3 mixing tips.

## INDICATIONS

The products of the SILIC•ONE line are indicated for dental impression techniques, specifically:

**SILIC•ONE Putty Soft:** Primary impression of implants, prosthetic components, indirect restorations, dental prostheses, edentulous arches, removable partial dentures, laminates, and crowns on teeth;

**SILIC•ONE Heavy Body and Light Body:** Suitable for copying finer details when making impressions of implants, prosthetic components, indirect restorations, dental prostheses, edentulous arches, removable partial dentures, laminates, and crowns on teeth. They may also be used to perform full prosthesis rebasing;

**SILIC•ONE Clear Body:** Indicated for making guides in colorless silicone for the veneer technique with injectable resins;

**SILIC•ONE Bite Registration:** Indicated for making occlusal registration with precision.

## NEW PRODUCT!

# FGM ambar

— UNIVERSAL APS PLUS

Self-etching adhesive system for enamel and dentin.

## Advanced adhesion and simplification of steps



BPA  
FREE

WITH  
ENHANCED  
MDP

WITH SILANE  
IN ITS COMPOSITION



**Optimizes clinical time and reduces steps in cementing prosthetic parts:** self-etching adhesive with silane in its composition.



**3 in 1 - it may be used in three modes:** self-conditioning, selective enamel conditioning, and total conditioning (enamel and dentin).



**Does not require separate use** of a primer or silane. Fewer steps, more clinical success.



**Advanced standard of adhesion to different substrates.**



Indicated for **restorations, adhesive cementing, and application to materials in the indirect technique.**



**Lower sensitivity to moisture.**



**Enhanced MDP:** increased bond strength and improved adhesive film stability.



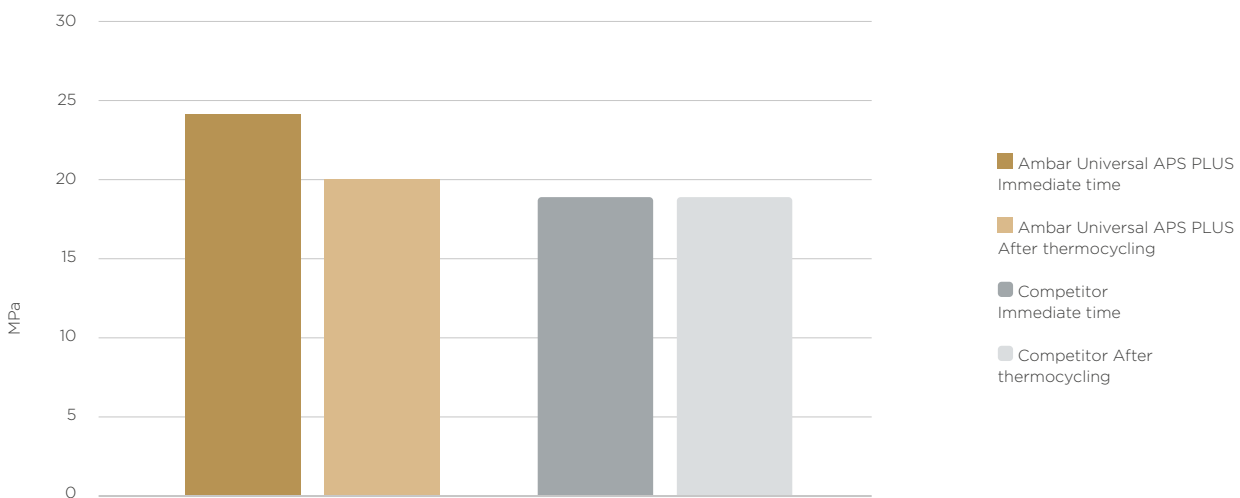
**Colorless aspect:** does not interfere with the esthetic result.

## ADVANTAGES

- Excellent performance, both for the specialist and the clinician, at any level of dentin moisture.
- Colorless aspect that does not interfere with the shade of the composite or cement.

## SCIENTIFIC EVIDENCE

### SUPERIOR ADHESION TO VITREOUS CERAMICS



Source: FGM Dental Group Internal Data.

The Ambar Universal APS Plus adhesive registered **better performance compared to the main competitor** for adhesion on Lithium Disilicate. Superior adhesion resistance was observed in the immediate time and similar after thermocycling.



*“With silane in its composition, Ambar Universal APS Plus reduces protocol steps and optimizes clinical time with superior safety and adherence to the conventional technique.”*

Prof. Dr. Alessandro Loguercio

**TESTED & APPROVED**  
  
 Prof. Dr. **Alessandro Loguercio**

### COMMERCIAL PRESENTATION



**Refill**  
**Content:** 1 bottle with 3ml.

### INDICATIONS

- All classes of restorations with composites (classes I, II, III, IV, and V);
- Adhesive cementing (in addition to the resinous cement) of prosthetic parts (post/cores, crowns, onlays/inlays, veneers, etc.) made of fiberglass, ceromer, ceramics, composite, and metal;
- Adhesive repairs in ceramics and composites;
- Use as a primer for metals or ceramics.



**NEW PACKING!**

**(FGM)**  
**ambar**  
 — UNIVERSAL APS

Self-etching light-curing universal adhesive system for enamel and dentin.

**Adhesive  
 excellence and  
 versatility**



*“The APS brought to the Ambar line greater polymerization efficiency, high adhesion level, and a colorless aspect.”*

Prof. Dr. Alessandro Loguercio

**TESTED & APPROVED**  
 Prof. Dr. Alessandro Loguercio



All the qualities of Ambar APS **even more enhanced.**



**Adhesion to different surface types:** metals, ceramics, composites, and fiberglass posts.



**High adhesion in different application modes:** total acid conditioning, selective in enamel, and self-etching.



**Enhanced MDP:** increased bond resistance and improved adhesive film stability.



Versatility with **minimal sensitivity.**



**Colorless aspect.**

**ADVANTAGES** 

- Excellent performance, both for the specialist and the clinician, at any level of dentin moisture;
- Greater esthetics (colorless aspect).

## IT MAY BE USED IN THREE FORMS OF CONDITIONING



# 1

### TOTAL CONDITIONING

After dental preparation, perform acid conditioning on enamel and dentin for 15 seconds. Rinse thoroughly and dry with an air jet. Vigorously apply the first layer, rubbing the adhesive-saturated microapplicator for 10 seconds. Next, apply the second adhesive layer - with a new drop - for 10 seconds and apply an air jet for 10 seconds to evaporate the solvent. Photopolymerize the adhesive for 10 seconds.



# 2

### SELECTIVE CONDITIONING

After dental preparation, perform acid conditioning on enamel for 15 seconds and perform abundant rinsing and drying with an air jet. Vigorously apply the first layer, rubbing the adhesive-saturated microapplicator for 10 seconds. Next, apply the second adhesive layer - with a new drop - for 10 seconds and apply an air jet for 10 seconds to evaporate the solvent. Photopolymerize the adhesive for 10 seconds.

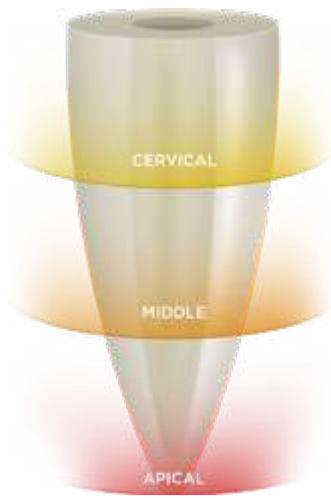


# 3

### SELF-ETCHING

After dental preparation, rinsing, and drying, apply the first adhesive layer in the self-conditioning primer function: apply vigorously by rubbing the adhesive-saturated microapplicator for 10 seconds. Next, apply the second adhesive layer - with a new drop - for 10 seconds and apply an air jet for 10 seconds to evaporate the solvent. Photopolymerize the adhesive for 10 seconds.

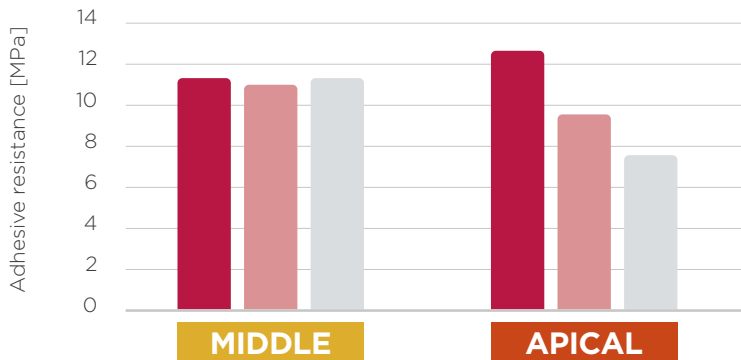
# SCIENTIFIC EVIDENCE



## The most indicated for intracanal application

- High rates of adhesiveness in the intracanal region;
- Better polymerization, even in the apical region;
- Greater compatibility with dual cements;
- Does not require prior acid etching.

Intracanal adhesion without Phosphoric Acid [MPa]

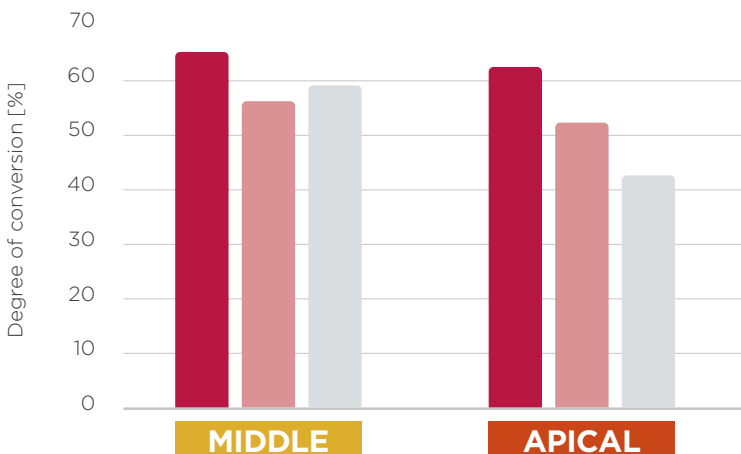


Studies have shown that regardless of the acid etching and moisture level of the dentin, as is the case with the intracanal region, **Ambar Universal APS** presents high adhesive resistance.

- Ambar Universal APS
- Ambar Universal
- Competitor

Source: V Hass et al, Effect of the Photo-initiator System Contained in Universal Adhesives on Radicular Dentin Bonding. Oper Dent 1 September 2020; 45 (5): 547-555.

Degree of conversion without Phosphoric Acid [%]



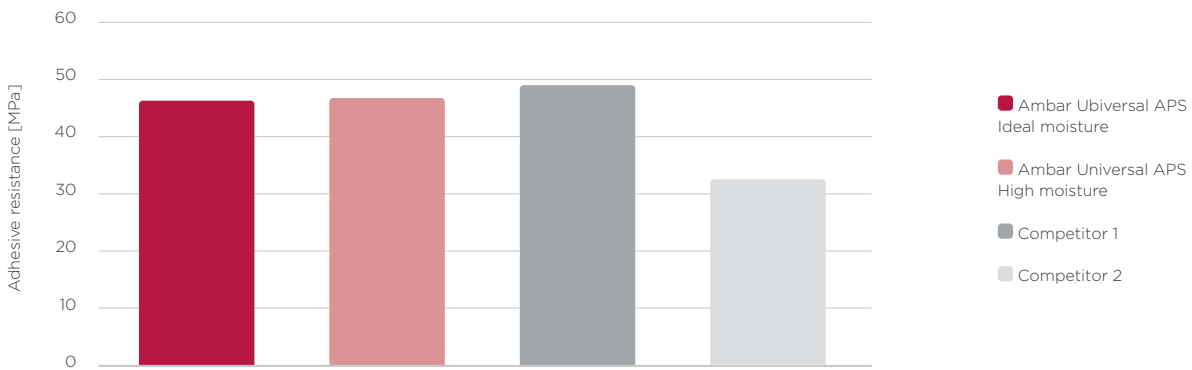
The high degree of conversion in the apical third corroborates the results of the high adhesion of Ambar Universal APS.

- Ambar Universal APS
- Ambar Universal
- Competitor

Source: V Hass et al, Effect of the Photo-initiator System Contained in Universal Adhesives on Radicular Dentin Bonding. Oper Dent 1 September 2020; 45 (5): 547-555.

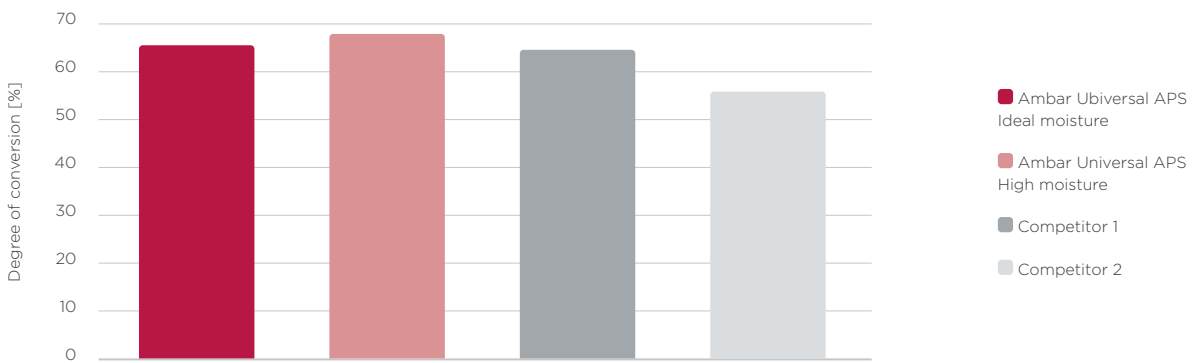
# SCIENTIFIC EVIDENCE

Resistance of bond to dentin without Phosphoric Acid (MPa)



Source: Loguercio, A.D. et al, Influence of dentinal moisture on the properties of universal adhesives, International Journal of Adhesion and Adhesives, Volume 101, 2020.

Degree of conversion without Phosphoric Acid [%] at different moisture levels



Source: Loguercio, A.D. et al, Influence of dentinal moisture on the properties of universal adhesives, International Journal of Adhesion and Adhesives, Volume 101, 2020.

## COMMERCIAL PRESENTATION



### Refill

**Content:** 1 bottle (primer + adhesive) with 5ml.

## INDICATIONS

- All classes of direct restorations with composites (classes I, II, III, IV, and V);
- Adhesive cementing (in addition to the resinous cement) of prosthetic parts (posts/cores, crowns, onlays/inlays, veneers, etc.) made of fiberglass, ceromer, ceramics, composite, and metal;
- Adhesive repairs in ceramics and composites;
- Use as a primer for metals or ceramics.



**NEW PACKING!**

**(FGM)**  
**ambar**  
 APS

Light-curing adhesive system for  
 enamel and dentin

**Greater adhesive  
 resistance and  
 longevity**



**BPA  
 FREE**

**WITH  
 MDP**



**Increased adhesion to  
 enamel**, healthy dentin, and  
 dentin affected by caries.



**Lower** marginal  
 infiltration index.



Bond **longevity**.



**High degree** of  
 conversion.



Formation of a more  
 resistant **adhesive film**.



Colorless  
**aspect**.

## ADVANTAGES

- Excellent performance under dentin moisture conditions, both for the specialist and the clinician;
- Greater esthetics (colorless aspect).

## COMMERCIAL PRESENTATION



### Refill

**Content:** 1 bottle (primer  
 + adhesive) with 6ml.

## INDICATIONS

- All classes of direct restorations with composites (classes I, II, III, IV, and V);
- Adhesive luting (in addition to the resin cement) of prosthetic

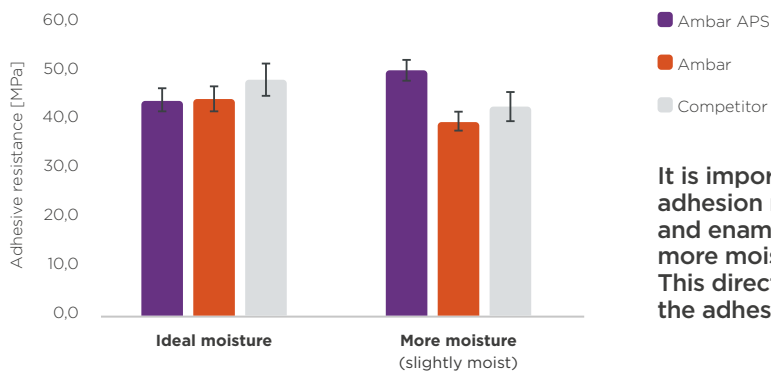
- pieces (posts/cores, crowns, onlays/inlays, veneers, etc.) made of fiberglass, ceromer, ceramic, resin, and metal;
- Adhesive repairs in ceramics and composites.

# Finally, a product that is not sensitive to moisture.

One of the biggest challenges of an adhesive system is maintaining performance under different moisture conditions. **Ambar APS** and **Ambar Universal APS** overcome these challenges and are ideal for application in regions where it is difficult to control moisture, such as restorations on posterior teeth or near the gum.

## SCIENTIFIC EVIDENCE

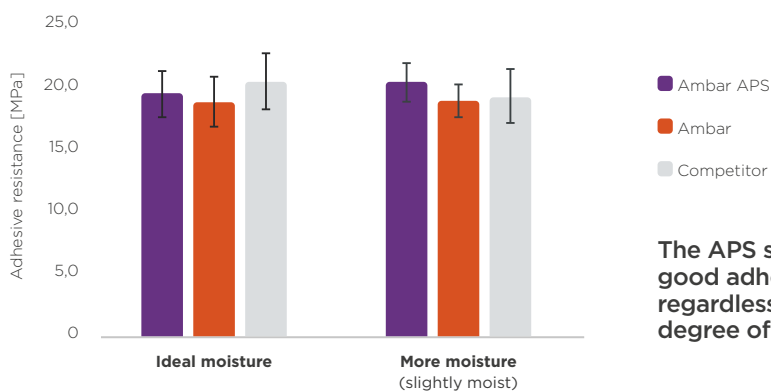
Adhesive resistance to dentin [MPa]



It is important to note that the high level of adhesion remains even on more moist dentin and enamel, which means that the adhesive is more moisture tolerant. This directly benefits clinical practice by making the adhesive less sensitive to the technique.

Source: Loguercio AD, et al., UEPG-PR, 2018.

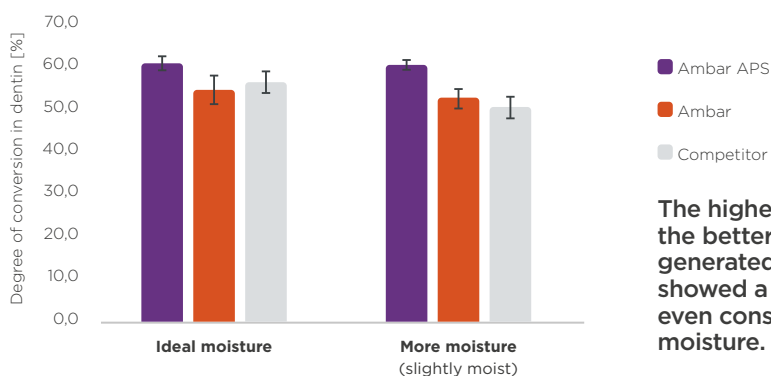
Adhesive resistance to enamel [MPa]



The APS system guarantees good adhesive resistance regardless of the substrate or degree of moisture.

Source: Loguercio AD, et al., UEPG-PR, 2018.

Degree of conversion [%]



The higher the degree of conversion is, the better the structure quality of the generated adhesive film. Ambar APS showed a high degree of conversion, even considering dentin with increased moisture.

Source: Loguercio AD, et al., UEPG-PR, 2018.

**NEW PACKING!**

**(FGM)**  
**ambar**

Light-curing adhesive system for  
enamel and dentin

**Proven** by  
researchers.  
**Approved** by  
dentists



**Practicality:**  
primer + adhesive  
in one bottle.



**High  
degree** of  
conversion.



Adequate  
**marginal  
sealing.**



Proven **clinical  
longevity.**

## PRODUCT APPLICATION



Acid conditioning.



Application of the adhesive.



Final restoration.

## COMMERCIAL PRESENTATION



**Refill**  
**Content:** 1 bottle  
(primer + adhesive)  
with 4ml or 6ml.

## INDICATIONS

- All classes of direct restorations with composites (classes I, II, III, IV, and V);
- Adhesive cementation (in addition to the composite cement) of prosthetic

- parts (posts/cores, crowns, onlays/inlays, veneers, etc.) made of fiberglass, ceromer, ceramic, composite, and metal;
- Adhesive repairs in ceramics and composites.

FGM

# Condac37

37% phosphoric acid gel for etching of enamel and dentin.



**Easy removal:** good affinity with water.



**Differentiated color:** facilitates application control.



**Excellent consistency:** easy application, does not run down from the applied location.



**Finer and longer tip:** easy application and higher precision in regions that are difficult to access.

## COMMERCIAL PRESENTATION



### Refill

**Content:** 3 syringes with 2.5ml each and tips.

FGM

# Condac porcelana

5% and 10% hydrofluoric acid gel for etching porcelain.



**Easy removal:** good affinity with water.



**Differentiated color:** facilitates application control.



**Excellent consistency:** easy application, does not run down from the applied location.

## COMMERCIAL PRESENTATION

\*Check product availability in your country.

### Refill

**Content:** 1 syringe with 2.5ml and 1 tip.





# Whitepost SYSTEM

Fiberglass posts.

## Safety, resistance, and longevity for endodontically treated teeth



*"The Whitepost System fiberglass posts system is undoubtedly one of the best in the world! Based on research carried out over more than 20 years on the topic, combined with the clinical experience of using FGM posts, it is possible to prove its superior performance!"*

Prof. Dr. Carlos José Soares



**Translucency:** posts with high esthetic ability and light conductivity.



**High safety:** elasticity similar to dentin.



**Double conicity:** better adaptation to the conduit without requiring more significant wear of the dental structure.



**Radiopacity:** possibility of radiographic diagnosis.

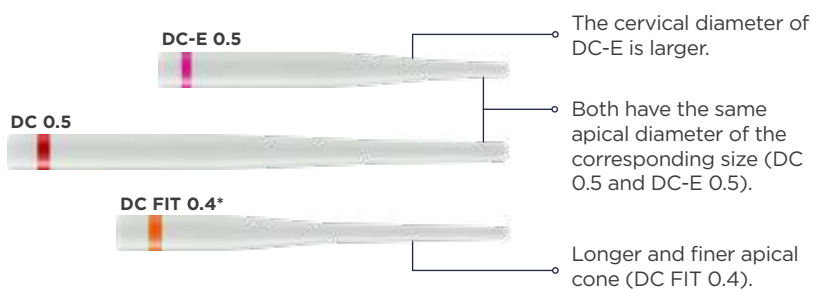


**Silanized surface:** improves the adhesion performance of the posts.



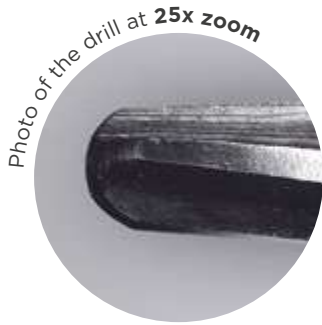
**Exclusive drill:** a specific drill for each posts size, producing a custom root preparation for each condition.

## THE ONLY ONE WITH THREE MODELS: DC, DC-E, AND DC-FIT

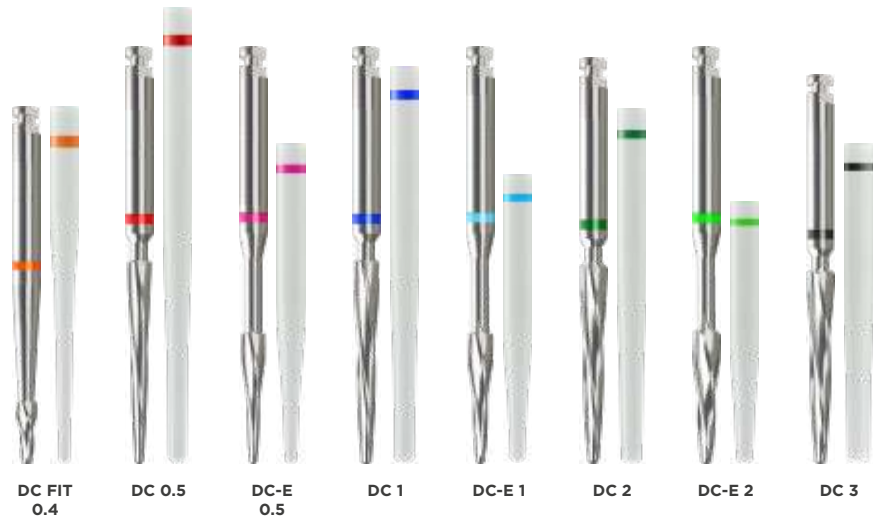


**\*DC FIT 0.4:** a minimally invasive design for the most conservative endodontic cases. Developed according to the format of modern endodontic instruments of preparation finalization.

## COLOR SYSTEM: + EASE



- Inactive tip;
- High side cutting power;
- Sharpening longevity.



## CLINICAL CASE

Author: Prof. Dr. Raphael Monte Alto.



Initial appearance.



Cemented post.



Final appearance.

## COMMERCIAL PRESENTATION



**DC Kit:**  
DC 0.5, DC 1, DC 2, DC-E 2 and DC 3  
**Content:** 5 posts of each size (totaling 25 pins), drills, and posts selection guide.



**DC Intro Kit:**  
DC 0.5, DC 1, DC 2 or DC 3  
**Content:**  
5 posts of the same size and 1 drill.



**DC-E Kit:**  
DC 0.5, DC-E 0.5, DC 1, DC-E 1 and DC-E 2  
**Content:** 5 posts of each size (totaling 25 posts), drills, and posts selection guide.



**DC-E Intro Kit:**  
DC-E 0.5, DC-E 1 or DC-E 2  
**Content:**  
5 posts of the same size and 1 drill.



**Refill:**  
DC 0.5, DC 1, DC 2, DC3, DC-E 0.5, DC-E 1, DC-E 2 or DC Fit 0.4  
**Content:** 5 posts of the same size.



**Intro Kit:**  
DC FIT 0.4  
**Content:**  
5 posts of the same size and 1 drill.

## INDICATIONS

- Support of restorations and prosthetic crowns in cases with insufficient residual structure.



**Mix Refill:**  
**Content:** 3 DC 0.5 posts and 3 DC 1 posts.



# Allcem Veneer<sup>APS</sup>

Light-curing resin cement for veneers and no-prep veneers.

Total control of the **cementation**



*“Allcem Veneer APS provides shade stability before and after photopolymerization and longer working time due to the APS technology.”*

Prof. Dr. Paulo Quagliatto



Combination with Allcem Veneer Try-in: **shade predictability.**



**With fluorescence:** appearance similar to natural teeth.



**Thixotropy:** excellent handling.



**Shade stability:** esthetic longevity.



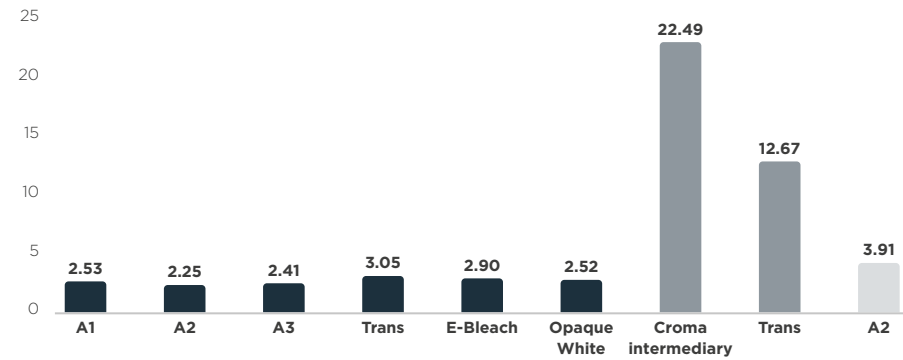
**Charge between 59% and 63%:** excellent mechanical properties.

## ADVANTAGES <sup>APS</sup>

- Longer working time in illuminated areas for positioning the veneers.
- Maximum esthetic predictability: does not present significant variation in shade and opacity after polymerization.

# SCIENTIFIC EVIDENCE

$\Delta E$  before and after polymerization

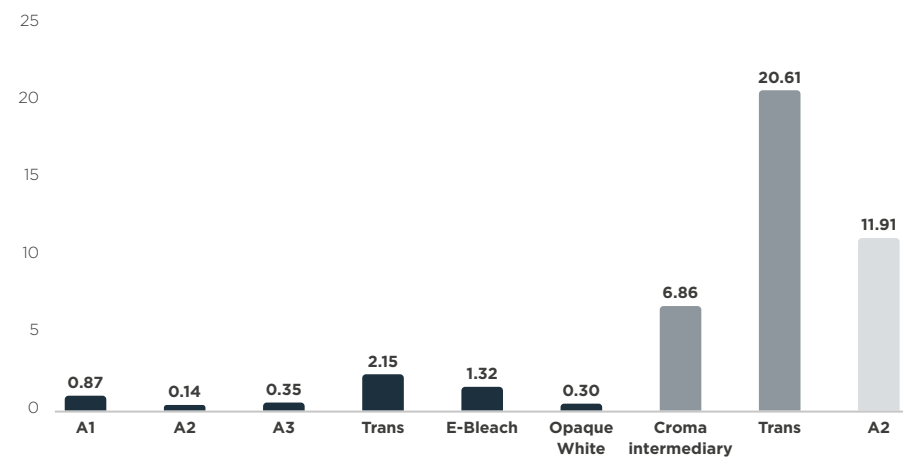


With such a low shade and opacity variation, it is possible to say that the shade of the cement when setting the part in position on the tooth is the same as that after polymerization.

Allcem Veneer APS ■  
Competitor 1 ■  
Competitor 2 ■

Source: FGM Internal data.

$\Delta O$  before and after polymerization



Allcem Veneer APS ■  
Competitor 1 ■  
Competitor 2 ■

Source: FGM Internal data.

# CLINICAL CASE

Author: Prof. Dr. Leandro Martins



Initial appearance.



Final appearance.

# INDICATIONS

- Adhesive luting of ceramic and composite restorations (made in the office or in the laboratory) with a low layer thickness (up to 1.5 mm) that enables the use of a purely light-curing technique due to their high translucency.

## COMMERCIAL PRESENTATION

\*Check product availability in your country.



### Mini Kit

**Content:** 3 syringes with 2.5g each, in shades **A1, OW, and Trans**, 3 Try-in syringes with 2g each, in shades **A1, OW, and Trans**, 1 Ambar APS with 2ml and tips.



### Allcem Veneer APS Refill

**Content:** 1 syringe with 2.5g in shades **A1, A2, A3, Trans, Opaque White, or E-Bleach M** and tips.



### Allcem Veneer Try-in Refill

**Content:** 1 Try-in with 2g in shades **A1, A2, A3, Trans, Opaque White, or E-Bleach M** and tips.



# Allcem CORE

Dual resin cement for cementing and core build-up.

## 3 in 1



Post cementation



Core build-up



Crown cementation



**Dual cure:** polymerization even in the absence of light.



**Practicality of use:** using the intracanal tip allows a more uniform and bubble-free cementation.



**Radiopaque:** easy visualization.

### COMMERCIAL PRESENTATION

#### Refill

**Content:** 1 double-body syringe (base + catalyst) with 6g and 8 self-mixing tips with intracanal application tip.

**Available in shades:** A1, A2, A3 (Universal), and Opaque Pearl.



# Allcem cimento DUAL

Dual resin cement.



**Dual cure:** polymerization even in the absence of light.



**Adequate adhesion** to intra-radicular dentin.



**High resistance** to wear.



**Two forms of presentation:** single-body syringe and double-body syringe.

### COMMERCIAL PRESENTATION

#### Double body refill

**Content:** 1 double-body syringe with 5G in shades **A1, A2, A3, and Trans**, and 5 self-mixing tips.

#### Base refill

**Content:** 1 simple syringe of base paste with 2.5g in shades **A1, A2, A3, and Trans**.

#### Catalyst refill

**Content:** 1 simple syringe of catalyst paste with 2.5g.





# Maxxion R

Glass ionomer cement for restoration.



It may also be used as **lining for restorations**.



**With fluorine:** excellent fluorine release in the oral environment, preventing dental demineralization.



## COMMERCIAL PRESENTATION

### A2 and A3 Kit

**Content:** 1 bottle of powdered cement with 10g, 1 bottle of liquid with 8g, 1 powder doser, and 1 spatulation block.

### A2 or A3 Powdered unit

**Content:** 1 bottle of powdered cement with 10g and 1 powder doser.

### Liquid unit

**Content:** 1 bottle of liquid with 8g.



# Maxxion C

Glass ionomer cement.



**With fluorine:** prevents dental demineralization.



**Low solubility:** cementation longevity.



**Indicated for cementing** orthodontic bands, zirconia, and metals.



## COMMERCIAL PRESENTATION

### Kit

**Content:** 1 bottle of powdered cement with 15g, 1 bottle of liquid with 10g, 1 powder doser, and 1 spatulation block.



# Orthocem

Cement for bonding brackets.



**Adhesive resistance:** prevents failures throughout the treatment while having facilitated removal at the end of the treatment.



**Esthetics:** ability to resist shade variation over time, not compromising the esthetics of the smile.



**UV tracker:** ease of location and removal, preventing damage to the enamel.



**Excellent consistency:** easy application to brackets and removal of excess.

## PRODUCT APPLICATION

**Authors:** Dr. Thiago Roberto Gemeli, Dr. Rafaella Ronchi Zinelli, Dr. Rayane Alexandra Prochnow, and Dr. Andréia Luiza Gabriel.



Acid conditioning with Condac 37% in the bonding area of the brackets.



Application of adhesive Ambar APS.



Application of cement Orthocem on the bracket mesh.



Photopolymerization of the orthodontic cement.

## COMMERCIAL PRESENTATION



### Refill

**Content:** 1 syringe with 4g and 1 syringe of Condac 37 with 2.5ml and tip.

## INDICATIONS

- Cementation of metal, ceramic or polycarbonate brackets or tubes to enamel surface.



# Ortho Bite

Light-curing composite for disocclusion, temporary occlusal lift in prostheses/cosmetic dentistry, and cementing of bands.



**Self-leveling:** ease of application.



**High smoothness:** increased comfort for the patient.



**High mechanical and adhesive resistance:** durability of cementation or bite lift.



**Self-adhesive system:** only requires prior acid conditioning.



## COMMERCIAL PRESENTATION



**Refill**  
**Content:** 1 syringe with 4g.



# Top comfort

Light-curing composite that replaces orthodontic wax.



**SELF-LEVELING**



**Versatility:** different clinical indications.



**More efficient** than traditional wax.



**High mechanic** and adhesive resistance.



- Effectively prevents injuries caused by orthodontic brackets and tie ends;
- Making the stop in the wire of self-ligating braces.

## COMMERCIAL PRESENTATION

**Refill**  
**Content:** 1 syringe with 2g and 5 tips.





# Diamond master

Finishing and polishing kit for all restorative materials.



**Excellent polishing:**  
for various surfaces.



Best **cost-benefit ratio**  
in the market.



## COMMERCIAL PRESENTATION

### Kit

**Content:** 1 Diamond Excel syringe with 2g, 36 Diamond Pro sanding disks divided into coarse, medium, and fine grits, 14 Diamond Flex disks, 1 mandrel for straight handpieces, 1 mandrel for contra-angle handpiece, and 1 tip.



# Diamond pro

Disks for finishing and pre-polishing.



**Excellent finishing  
and pre-polishing:** for  
various surfaces.



**Quick fitting:**  
greater practicality.



**Without metal parts:**  
prevents damage to the  
composite during polishing.



Available in  
4 granulations.



## COMMERCIAL PRESENTATION

### Kit

**Content:** 56 Diamond Pro sanding disks in four grits: coarse, medium, fine (with diameters of 8mm and 12mm) and 1 mandrel.

### Refill

**Content:** 26 Diamond Pro sanding disks in the grits coarse, medium, fine, and extra-fine with diameters of 8mm and 12mm and 1 mandrel.





# Diamond

Felt disks for polishing.



**Excellent polishing:**  
for various surfaces.



**Quick fitting:**  
greater practicality.



**Use with:**  
polishing pastes.



## COMMERCIAL PRESENTATION

### Kit

**Content:** 24 flexible felt disks with diameters of 8 and 12mm and mandrel.



# Diamond flex

Flexible felt disks for polishing.



**Excellent polishing:**  
for various surfaces.



**Quick fitting:**  
greater practicality.



**Use with:**  
polishing pastes.



**Flexible:** adaptable  
to uneven and curved  
surfaces.



## COMMERCIAL PRESENTATION

### Kit

**Content:** 24 felt disks with diameters of 8mm and 12mm.





# DIAMOND EXCEL ULTRAFINE

Ultra-fine diamond universal polishing paste with 0.5µm.

**Smoothness  
and high-shine  
polishing**



ULTRAFINE  
DIAMOND | 0.5 µm



**Universal polishing:**  
for all restorative  
materials.



**Thixotropic effect:**  
does not run down from  
the applied location.



**Micronized diamond:** high  
hardness that enhances  
polishing.



**Surprising appearance:**  
provides high levels of shine and  
smoothness, resulting in surprising finishes.

## INDICATIONS

Indicated for polishing restorative materials in general, especially porcelain, using Diamond or Diamond Flex felt disks.

## COMMERCIAL PRESENTATION



### Refill

**Content:** 1 syringe  
with 2g and tip.



# Diamond excel

Micronized diamond-based universal polishing paste.



**Extra-fine grit:**  
2 to 4 microns.



**Universal polishing:** it may be used with all restorative materials.



## COMMERCIAL PRESENTATION

### Refill

**Content:** 1 syringe with 2g and tip.



# Diamond Ac I&II

Aluminum oxide polishing paste for pre-polishing.



**Pre-polishing:** in two grit options (AC I: 80 microns and AC II: 30 microns).



**Thixotropic effect:** does not run down from the applied location.



## COMMERCIAL PRESENTATION

### Kit

**Content:** 1 syringe of Diamond ACI paste with 4g, 1 syringe of Diamond ACII paste with 4g, and 2 tips.



# Diamond R

Aluminum oxide composite polishing paste.



**Indicated for final polishing** in composites of extra-fine granulation (6 to 8 microns).



**Mint flavor:** pleasant feeling for the patient.



**Thixotropic effect:** does not run down from the applied.



## FORMS OF PRESENTATION

### Refill

**Content:** 1 syringe with 2g and tip.





# flúor care®

Foam based on sodium fluoride (1.23% fluoride ions)



**High yield:** up to 400 applications (8× more than gel).



**Safety:** lower risk of ingestion.



**Consistent foam:** allows use with impression trays or lip retractors.



**Variety:** 3 flavor options.

## COMMERCIAL PRESENTATION

### Refill

**Content:** 1 bottle of Flúor Care with 100g, available in flavors tutti-frutti (neutral) and strawberry and grape (acidulated).



# Duofluorid XII

Varnish based on 6% sodium fluoride and 6% calcium fluoride, with remineralizing and desensitizing action.



**Prevention and remineralization** of initial caries lesions.



**Colorless:** does not compromise esthetics.



Dentin **hypersensitivity treatment.**



**Quick drying:** greater agility in the application.

## COMMERCIAL PRESENTATION

### Refill

**Content:** 1 bottle with 10ml of varnish and 1 bottle with 10ml of solvent.



# Prevent

Light-curing resinous sealant for pits and fissures.



**High fluorine release:** prevents dental demineralization.



**Excellent wettability:** perfect adaptation to occlusal topography.

## COMMERCIAL PRESENTATION

### Refill

**Content:** 1 syringe with 2g in options Opaque White or tinted and 5 tips.



# Prosil

Silanizing agent for ceramic parts, ceromer, laboratory resin, and fiberglass posts.



**Practicality:** application protocol of only 1 minute.



**Efficiency:** increases adhesion on different substrates.

## COMMERCIAL PRESENTATION

### Refill

**Content:** 1 bottle of Prosil with 5ml.



# Cavibrush

Disposable microapplicator.



**Exclusive two-point bending:** allows to achieve angulations greater than 180°.



**Versatility:** different sizes for varied applications.

## INDICATIONS

Indicated for application of solutions or products for dental use on gums, teeth, or cavity preparations.



## COMMERCIAL PRESENTATION



Extra-fine



Fine



Regular

### Refill

**Content:** Package containing 100 units, available in the options on the left side.





# placas para moldeiras whiteness

Plates for making impression trays  
via vacuum forming.



**Thermoformed polymer:**  
fidelity in the reproduction  
of the arches.



**Excellent translucency:**  
esthetics during use.



**Available in 3 thicknesses:**  
1 mm: suitable for whitening impression trays.  
2 e 3mm: indicated as protectors for sports practices.



## COMMERCIAL PRESENTATION

### Refill

**Content:** 1mm plate with 5 units, 2mm plate with 2 units, or 3mm plate with 2 units.



# arcflex

Lip retractor.



**Versatility:** assists  
in various clinical  
procedures.



**Autoclavable:** reusable  
device and resistant to  
sterilization cycles.



**High flexibility:**  
easy insertion and  
removal.



## COMMERCIAL PRESENTATION

**Content:** Package containing 1 M or L retractor.  
Package containing 2 M or L retractors.



# Whiteness Perfect

## THE CHOICE OF THOSE WHO KNOWS THE MOST ABOUT DENTAL WHITENING: YOU!

The preference for Whiteness Perfect is backed by scientific studies conducted by renowned universities worldwide that prove its efficacy and safety and reinforce the reasons for its leadership since 1996.



**5X AWARDED**  
THE BEST TAKE-HOME WHITENING GEL



*"For many years, Whiteness Perfect, especially the 10% whitening gel, has been the one I use most for take-home whitening. It combines the commercial success of decades with continuous investments in clinical and scientific research worldwide that demonstrate very satisfactory results, bringing safety and foundation for the indication of this product and its use in everyday life."*

Prof. Dr. Leandro Hilgert



Get to know all versions available

[fgmdentalgroup.com](http://fgmdentalgroup.com)





# GET TO KNOW OUR SPECIAL RESTORATION KITS



## KIT EVERYDAY

2 syringes of Opallis with 4g (EA2 and DA2) + Ambar APS 6ml.

## KIT TECHNOLOGY

2 syringes of Vittra APS with 4g (EA2 and DA2) + Ambar Universal APS 5ml.

## KIT BLEACH 1

2 syringes of Vittra APS with 4g (DBL1, EBL1) + 2 syringes of Vittra APS with 2g (Trans N, Trans OPL) + Ambar APS 6ml.

## KIT BLEACH 2


2 syringes of Vittra APS with 4g (DBL2, EBL2) + 2 syringes of Vittra APS with 2g (Trans N, Trans OPL) + Ambar APS 6ml.


## KIT UNIVERSAL

1 syringe of Vittra APS Unique with 4g + Ambar Universal APS 5ml.



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