

**LEADERSHIP AND  
HIGH ESTHETICS**  
PRODUCT PORTFOLIO

**FGM** ESTHETICS



# 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, with the widely renowned Whiteness line, and synonymous with global excellence.

Its wide portfolio includes 400 products in various applications, such as **tooth whitening, biomaterials, implants, composites, adhesives, cements, fiberglass posts and finishing and polishing materials.**

Founded in 1996 on a solid base of research and development, FGM operates with state-of-the-art technology and science applied to its processes, creating and offering safe and differentiated solutions for complete oral rehabilitation and esthetics. For this purpose, it invests heavily in partnerships with renowned professors, universities and national and international research centers.

At FGM, the future is now. Its is built on new concepts, which combine scientific foundation with innovation, breaking paradigms, anticipating market demands with original solutions and questioning old standards.

It is not just about following the tendencies of a world in intense transformation. But an even greater challenge is to be the trend itself – and be recognized as one of the foremost companies in its sector, marked by boldness and courage of not only walking ahead, **but above all, going beyond.**



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# Whiteness Perfect #1

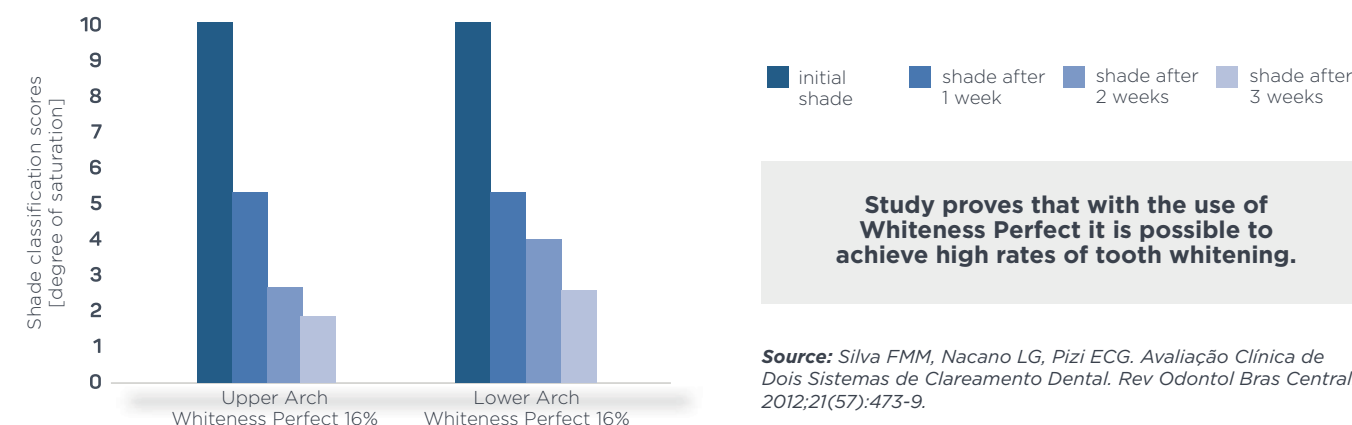
Carbamide peroxide at 10%, 16% and 22%.

LEADERSHIP AND  
HIGH ESTHETICS  
LIKE NO OTHER



## SCIENTIFIC PROOF

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



## CLINICAL CASE

Authors: Prof. Dr. Amanda Vessoni Barbosa Kasuya, Prof. Dr. Patricia Saram Progiante, Prof. Dr. Juliana Delben, Prof. Dr. Cleverson de Oliveira e Silva and Prof. Dr. Fabiano Carlos Marson.



INITIAL



FINAL

## AVAILABILITY

Kit 10% and 16%	Kit 22%	Mini Kit 16%	Bulk
<b>Content:</b> 5 syringes with 3g of gel each (15g of gel in the kit), 2 tray plates, tray case and applicator tips.	<b>Content:</b> 4 syringes with 3g of gel each (12g of gel in the kit), 2 tray plates, tray case and applicator tips.	<b>Content:</b> 3 syringes with 3g of gel each and tips.	<b>Content:</b> 50 syringes with 3g of gel each, individually packed, in the 10%, 16% or 22% concentrations.



### Desensitizing agents:

- Potassium Nitrate
- Fluoride



**High level of water:** keeps your teeth hydrated, reducing the risk of sensitivity.



Present in over 100 countries.



**Safety:** pH close to neutral.



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



### WEARING TIME

**10% and 16%:** 3 to 4 hours a day or overnight use.  
**22%:** 1 hour a day.



European Cosmetic certification  
European Union - Obelis.\*

\*concentrations 10% and 16%.

“FGM's Whiteness line is a reference in whitening gels. We can use Whiteness Perfect, for the take-home technique, in the concentration from 10% to 22%. I conducted several studies already published in articles and books with these materials and I use them daily in the office and in courses, normally in the concentrations of 10% and 16%.”

**Prof. Dr. Fabiano Marson**

Coordinator for the Specialization and Master program in dentistry, Faculdade Ingá, Maringá PR.



# White Class

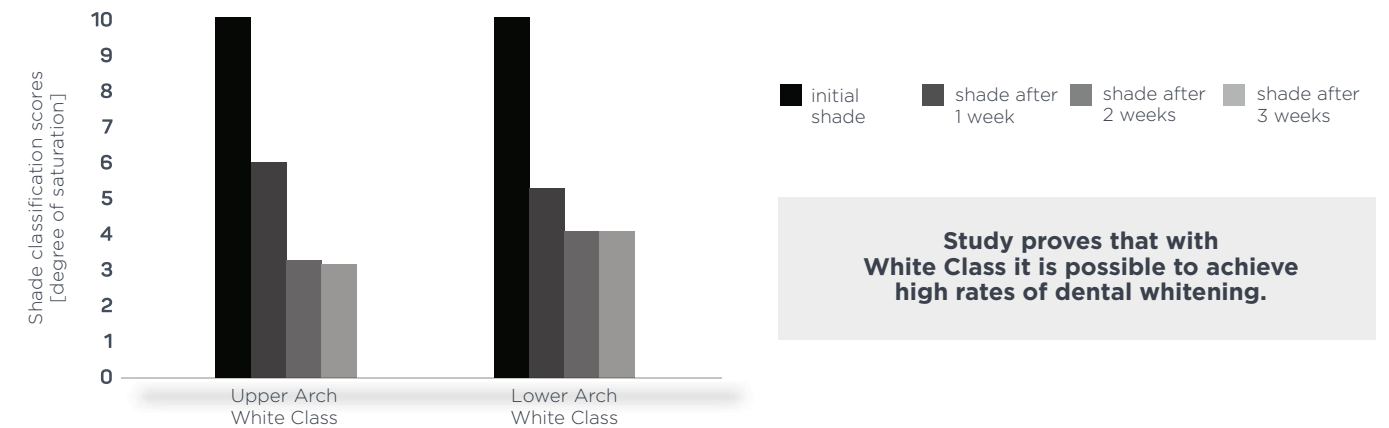
Hydrogen peroxide at 6%, 7.5% and 10%.



WHITER TEETH  
WITH SHORTER  
WEARING TIME.

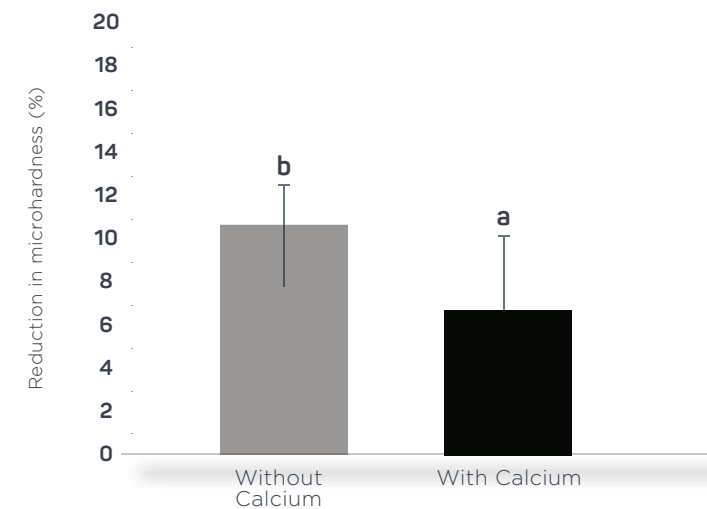
## SCIENTIFIC PROOF

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



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

Dental enamel microhardness after one application of whitening gel with and without calcium.



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.

## AVAILABILITY

Kit 6% and 7.5%		Bulk	
	<b>Content:</b> 4 syringes with 3g of gel each, 1 tray case, 1 cosmetic bag, and applicator tips.		<b>Content:</b> 50 syringes with 3g of gel each, individually packed, in the concentrations 6%, 7.5% or 10%.

Check product availability in your country.

**Best desensitizing package:**

- Potassium Nitrate.
- Fluoride.

**Ca<sup>++</sup> With calcium:** prevents demineralization.

**SHORTER WEARING TIME:**

- 6%:** 1 hour and 30 minutes a day.
- 7.5%:** 1 hour a day.
- 10%:** 30 minutes a day.



European Cosmetic certification  
European Union - Obelis.\*

\*concentration 6%.

## CLINICAL CASE

Author: Prof. Dr. Fábio Sene.



INITIAL



FINAL



# Whiteness HP Blue

Hydrogen peroxide at 35%.



GREATER PRACTICALITY,  
LOWER SENSITIVITY.

**Ca<sup>++</sup>** With calcium:  
remineralizing action.

**pH** Alkaline and stable pH:  
lower diffusion of peroxide to the  
pulp, with low sensitivity rates.

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

## CLINICAL CASE

**Author:** Dr. Andreia Luiza Gabriel.



INITIAL



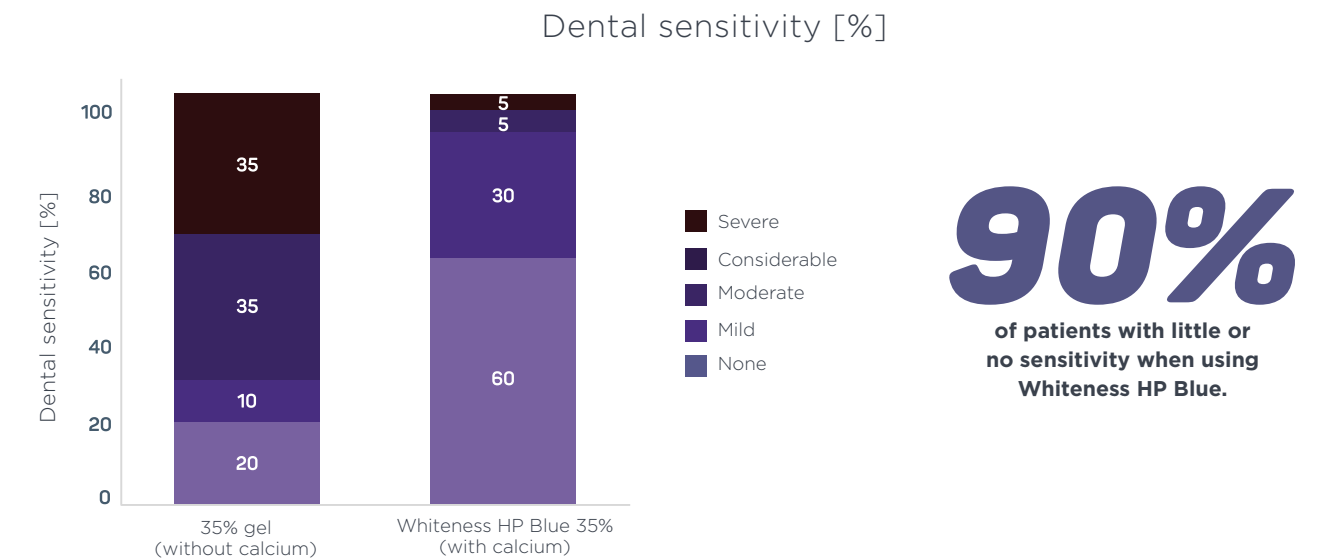
FINAL

## AVAILABILITY

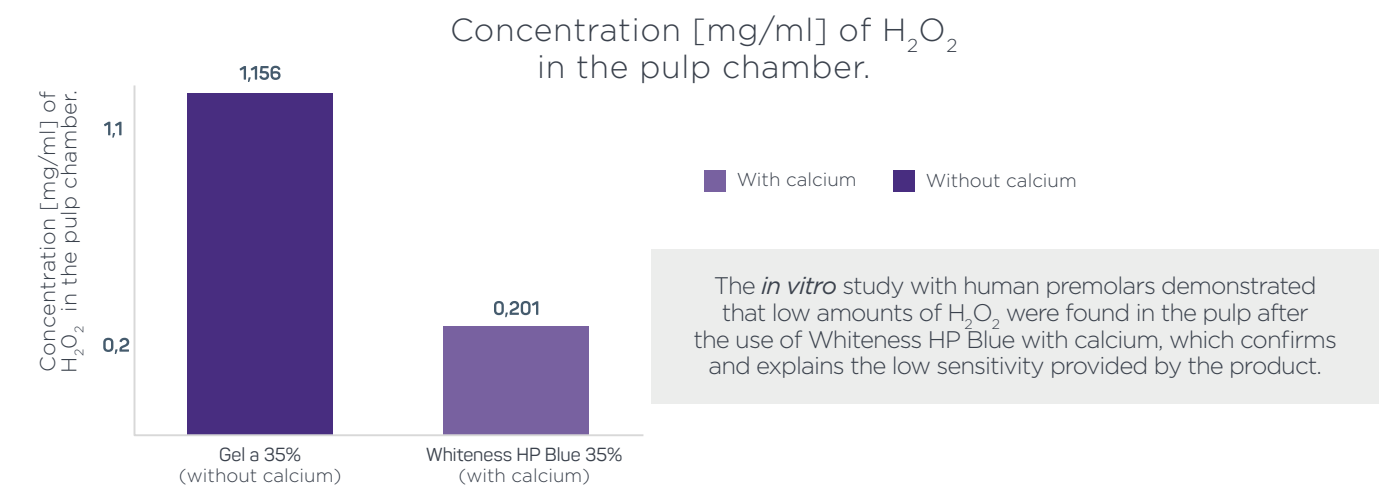
Kit	Mini Kit
 <p><b>Content:</b> 6 sets of syringes (1.2g per set - 7.2g of gel in total), 1 Neutralize with 2g, 1 Top dam with 2g, 6 coupling devices for the syringes and applicator tips.</p>	 <p><b>Content:</b> 1 set of syringes (thickener and gel) with 1.2g gel, 1 Top dam with 1g, 1 coupling device for the syringe and applicator tips.</p>

Whitening products classified as medical device are not available in some countries of the European Community. Check product availability in your country.

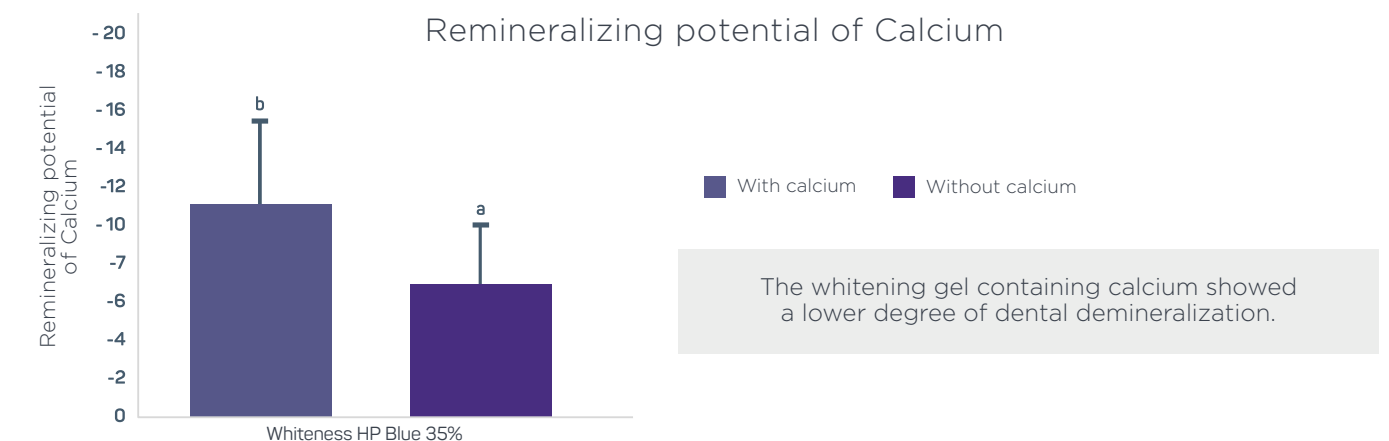
## SCIENTIFIC PROOF



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



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



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

Check product availability in your country.



# Whiteness HP AutoMixx

Hydrogen peroxide at 35%.

THE MOST **PRACTICAL,**  
**SAFE AND COMPLETE**  
**AUTO-MIXING**  
**WHITENING GEL.**

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

**Automatic mixing** of phases with **excellent consistency.**

**Ca<sup>++</sup> With calcium:** remineralizing action.

**1 Single application per session:** can be maintained for up to 50 minutes in contact with the teeth without the need for changing.

**Heat blocker:** prevents dental heating when using light sources.

European Cosmetic certification  
European Union - Obelis.\*

## CLINICAL CASE

**Authors:** Dr. Paulo Quagliatto, Dr. Guilherme Faria Moura and Dr. Laura M.M. Quagliatto.



INITIAL



FINAL

\*concentration 6%.

## AVAILABILITY

### Kit 35%



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

### Refil 35%



**Content:**  
1 double-body syringe with 2g of gel and self-mixing applicator tips.

# Whiteness HP Maxx

Hydrogen peroxide at 35%.

VERSATILE  
AND PRACTICAL.

**HEAT BLOCKER:** prevents dental heating when using light sources.

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

**Safety:** gel replacement maintains the pH of the product safe, preventing enamel demineralization.

**Color change:** visual identification of chemical action.

## CLINICAL CASE

**Authors:** Iasmim Mainny Diógenes Veras and Alex José Souza dos Santos.



INITIAL



FINAL

## AVAILABILITY

### 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 applicator tips.

### Mini kit for 6 applications



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

Whitening products classified as medical device are not available in some countries of the European Community. Check product availability in your country.




# Top dam<sup>CE</sup>

Light-curing composite for relative gum isolation.



 **Excellent sealing power.**

 **Resilient composite:** easy application and greater comfort.

 **Easy removal:** more convenience.


## AVAILABILITY

**Refill:** 1 syringe with 2g and applicator tip, available in the colors: green and blue.


# Desensibilize KF<sup>CE</sup>

Desensitizer based on potassium nitrate and sodium fluoride.



 **Colorless gel:** does not interfere in dental whitening.

 Potassium Nitrate + Sodium Fluoride: **desensitizing action.**

 **Desensibilize KF 0.2%:** the patient can take it home for application on the trays.

 Scientifically proven effectiveness.

 **Desensibilize KF 2%:** exclusive for in-office use.

## AVAILABILITY

**Refill:** 1 syringe with 2.5g at 0.2% or 2% and applicator tips.

## Technology



**FGM's unique technology** consists of a combination of different photoinitiators that interact with each other and amplify the polymerization capacity of light emitted by the light-curing devices.

One of these photoinitiators remains the camphorquinone (in very low concentration), used only to initiate a chain reaction with free radical multiplication as sequential propagation occurs.

That way, camphorquinone was added just as a “trigger”, because, since it is sensitized by the light length emitted by all the light-curing devices available in the market, professionals can use all the benefits of the APS even when using their conventional light-curing equipment, without having to invest in specific equipment.

## ESTHETICS

Due to the transparency of most APS photoinitiators it was possible to develop polymeric materials with high esthetic performance, neutralizing the yellowish color of the camphorquinone. For example: premium composite **Vittra APS** and **Allcem Veneer APS** cement do not demonstrate significant variation in shade before and after light curing. In the chameleon composite **Vittra APS Unique**, these photoinitiators that are more transparent make the chromatic mirroring easier and make it possible to achieve perfect mimicry. In the case of **Ambar APS** and **Ambar Universal APS**, their colorless appearance makes it all the difference in the cementation of veneers and no-prep veneers.

## LONGER WORKING TIME

Materials containing the APS system have 4 times less sensitivity to ambient light when compared to traditional ones. The possibility of performing esthetic restorations with **Vittra APS** is real, as well as having enough time to insert and sculpt a restoration with **Opus Bulk Fill APS** at once. It is also possible to simultaneously position and cement veneers with **Allcem Veneer APS**. And all that with the reflector's light on!

## CURING DEPTH

One of the important qualities of APS is that it provides better conversion of monomers to polymers even at great depths. This property is of great importance for all photoactivated composites but especially for **Opus Bulk Fill APS** and **Opus Bulk Fill Flow APS**, which are inserted in large increments, ensuring clinical longevity for restorations.

## MECHANICAL PROPERTIES

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



GET TO KNOW THE PRODUCTS WHICH  
CONTAIN THE **APS TECHNOLOGY**.



#### Vittra APS

Premium composite with loads of spheroidal zirconium silicate. It offers high potential for polishing and shine longevity, besides being BPA free.

p.15



#### Vittra APS Unique

Universal chroma composite with capacity to match the tooth shade. From Bleach to D4 with a single composite. It is also BPA free.

p.18



#### Opus Bulk Fill APS and Opus Bulk Fill Flow APS

Low shrinkage composites for large increments. Faster restorations with the same longevity.

p.20



#### Ambar APS and Ambar Universal APS

Light-curing adhesives with MDP with high strength and adhesive longevity. They are also BPA free.

p.26

Check product availability in your country.

# Vittra<sup>APS</sup>

Premium composite

CE 2797

ADVANCED TECHNOLOGY  
**HIGH PERFORMANCE RESULTS**



## APS ADVANTAGES

- At least 4x longer working time than conventional composites.\*
- Predictability of composite shade even before photopolymerization (shade does not change during polymerization).
- Increased mechanical properties.



Also available  
In capsules



Composite and syringe  
free from Bisphenol A.

**SPHEROIDAL  
ZIRCONIUM  
SILICATE**



High performance of  
polishing and shine  
longevity.

High mechanical  
performance and esthetics.

Excellent viscosity for  
handling, not adhering to  
the spatula, favoring sculpture  
of restorations.

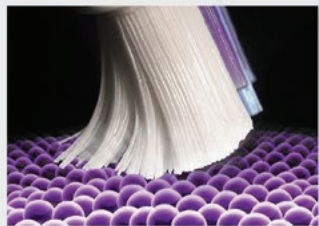
Sub-micrometric load of 200 mm.

Check product availability in your country.

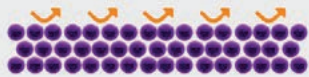
\*According to study conducted by Dr. Rodrigo Reis.



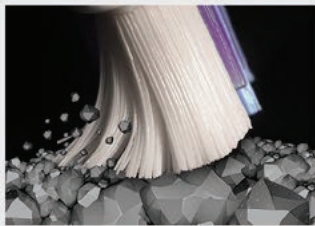
Greater resistance to wear and **smoother surface**.



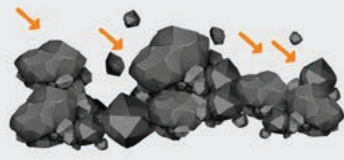
Simulation of brushing over the surface of the Vittra APS composite.



Smaller and spheroidal particles provide greater stability to the surface and are able to reflect with more efficiency the forces of the wear mechanism.

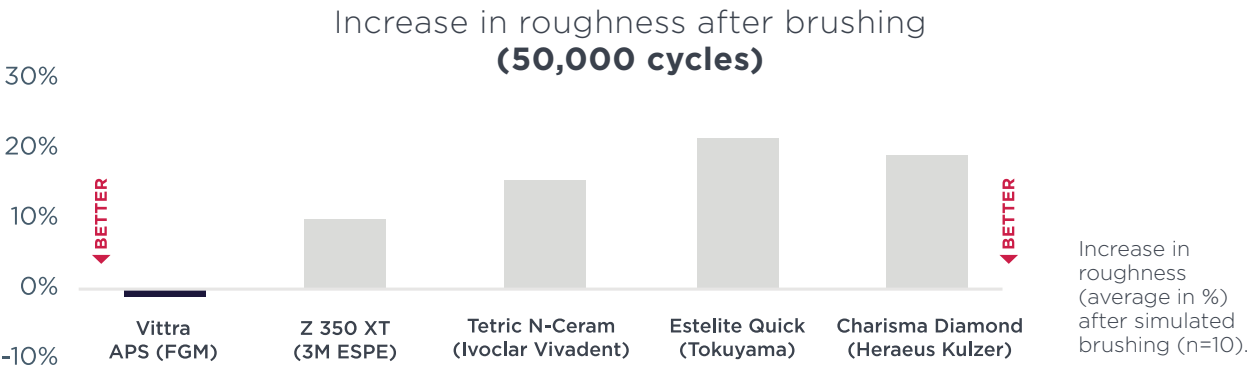


Simulation of brushing over a non-spheroidal composite surface.



Large particles generate large defects when the surface undergoes wear, resulting in the loss of shine due to the increase in roughness.

SCIENTIFIC PROOF



CONCLUSION

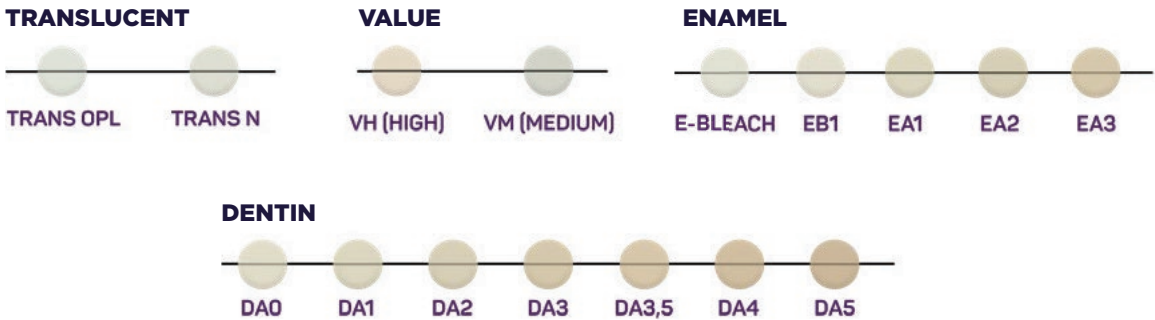
Vittra APS was the only composite that did not show an increase in superficial roughness after simulated brushing, **demonstrating excellent resistance to abrasion and great polishing longevity.**

*I have been working with Vittra APS since 2018. I have done countless restorations and rehabilitations in direct and indirect applications with this composite. I was amazed by the natural aspect of shade, the modeling potential, ease of brightness as well as shine longevity. Its resistance is compared to the hardest composites on the market, great for rehabilitation.*

**Prof. Dr. Luis A. Felipe**  
Specialist and Master in operative dentistry at UFSC-SC.

SHADE SYSTEM

The concept of Vittra APS shades has the purpose of organizing and simplifying the whole evolution of composites. Vittra APS makes available the shades mostly used in simple and complex restorations. Following a worldwide trend, it comes with a single shade for dentin (universal) - shade A Vita Classical® - with 7 saturation options, which simplifies the professional's routine when choosing the shade.



CLINICAL CASE

Author: Dr. Orlando Reginatto.



INITIAL



FINAL

AVAILABILITY

Kit	Refill	Capsules
 <p><b>Kit Essential Content:</b> DA1, DA2, DA3, EA1 and EA2 syringes with 4g, Trans N syringe with 2g, Ambar APS with 6ml and Condac 37 with 2,5ml.</p>	 <p><b>Syringes with 4g available in the colors:</b> DA1, DA2, DA3, DA3,5; EA1, EA2, EA3, EB1 e E-Bleach.</p>	 <p><b>Syringes with 2g available in the colors:</b> DA0, DA4, DA5, VM, VH, Trans OPL e Trans N.</p>
		 <p><b>Package containing 20 capsules of 0.2g available in shades:</b> DA1, DA2, DA3, DA3,5, EA1, EA2, EA3, EB1, E-Bleach, DA0, DA4, DA5, VM, VH, Trans OPL, Trans N.</p>

- Indications:**
- Restorations of anterior and posterior teeth of classes I, II, III, IV, V and VI.
  - Direct veneers with composite.
  - Core build-up.
  - Teeth splinting.
  - Modification of tooth shape (e.g.: conoid teeth).
  - Reduction or closing of diastemas.
  - Repairs in porcelain and/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 free of Bisphenol A.

BPA FREE

UNIVERSAL CHROMA Composite



Also available In capsules

FAST AND PRACTICAL PROCEDURES?  
CHOOSE UNIQUE.



## Chameleon effect:

Due its characteristics of chromatic mirroring, the composite captures and reflects the shade of the dental substrate during the polymerization process. The load, well-dosed opacity and esthetics of the APS system are fundamental to reach the **perfect mimicry**.



## High esthetics and mechanical resistance:

Besides excellent shine and polishing, it has high rates of flexural strenght and fracture resistance to withstand the stress resulting from masticatory forces.



## Universal chroma:

From Bleach to D4 with only one shade! It does not require layering most cases and anables the adoption of a simple incremental technique, without using different degress of opacity/translucency.



It does not require shade selection and, therefore, allows for faster restroative procedures, increases the professional's productivity and reduces the stock of the shades.

## APS ADVANTAGES

- Color transmission facilitated due to the low concentration of camphorquinone in the composition: the APS system uses more transparent photoinitiators;
- Longer working time under the reflector's/ambient light;
- Increased mechanical properties.

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

BEFORE

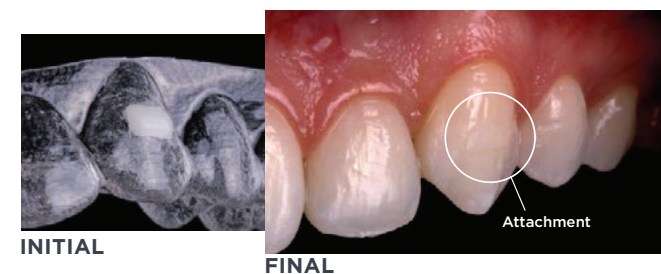


AFTER



## GALLERY

Author: Dr. Thiago Roberto Gemeli.



Author: Dr. Carlos E. Francci, Dr. Alexander C. Nishida and Dr. Guilherme de S. F. Anzaloni Saavedra.



Author: Prof. Dr. Fábio Sene.

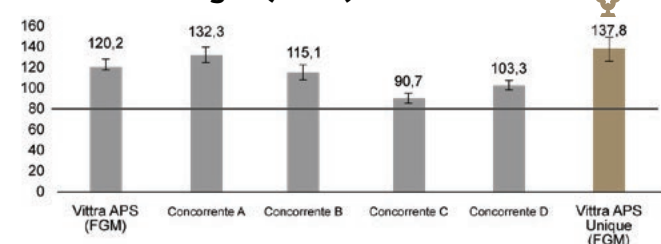


Author: Prof. Dr. Dayse Amaral.



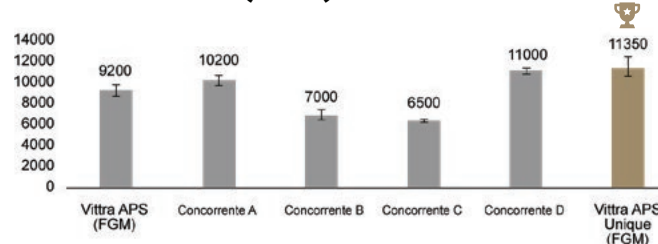
## SCIENTIFIC PROOF

### Flexural strenght (MPa\*)



Vittra APS Unique features flexural strenght superior to most competing products analyzed, with results up to 70% higher than the reference stipulated by the ISO 4049 standard (>80 MPa). The greater result, the greater the capacity of the composite to withstand the stress resulting from masticatory forces.

### Flexural modulus (MPa\*)



Vittra APS Unique presented compatible result to what is stated in the literature for human dentin (between 11700 and 18300MPa\*\*\*) and higher than competitors analyzed, demonstrating excellent resistance to acclusal forces, thus proving suitable for all classes of restorations.

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

## AVAILABILITY

Refill

Capsules



Syringe with 4g: one shade for all shades.



Content: Package containing 20 capsules of 0.2g, one shade for all shades.

### Indications:

- Permanent and deciuos teeth: direct restorations in anterior and posterior teeth (classes I, II, III, IV, V and VI).
- Use as a base composite: necessary when there is no wall in the back to be copied or when it has a color modification you do not wish to mimic.

**PLEASE NOTE:** class I, II, V and VI cavities: if there is darking cover the area with dentin composite or opacifiers (according to your preference) and proceed to restoration in the incremental technique with Vittra APS Unique. Class III and IV cavities (without black wall to support shade): make a layer that will serve as background for the rest of the volume with Vittra APS Unique in the incremental way.



# OPUS BULK FILL

Composite for single filling of posterior teeth.

FILL UP ALL THE REQUIREMENTS OF A PERFECT RESTORATION.



Also available  
In capsules

## ADVANTAGES

- Greater curing depth - up to 5mm.
- Longer working time for sculpture: stability under ambient / reflector's light. de sob luz ambiente e refletor.
- Greater opacity after polymerization.



Low shrinkage stress.



**No need for capping layer:** complete restoration with a single composite.

**Increments of up to 5mm:**  
Restorations completed 75% faster\*

## CLINICAL CASE

**Authors:** Prof. Dr. Eduardo Vargas and Prof. Dr. Dayse Amaral.



INITIAL



FINAL

## AVAILABILITY

### Refill



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

### Capsules



**Content:** Package containing 20 capsules of 0.2g available in shades: A1, A2 or A3.

### Indications:

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

Check product availability in your country.

# OPUS BULK FILL FLOW

Fluid composite for single filling of posterior teeth.

IDEAL FLOW FOR QUICK RESTORATIONS.



## ADVANTAGES

- Greater curing depth- up to 4mm.
- Low shrinkage stress.

**Increments of up to 4mm:**  
Restorations completed 66% faster\*

## CLINICAL CASE

**Author:** Prof. Dr. Eduardo Vargas.



INITIAL



FINAL

## AVAILABILITY

### Refill



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

### Indications:

- Base/lining underneath direct restorations.
- Small, non-occlusal stress-bearing class I restorations according to minimally invasive filling therapy.
- Pit and fissure sealant.
- Tunnel-type preparation.
- Repair of enamel defects.
- Bonding of tooth fragments.
- Repair in composite resin.
- Non-carious cervical lesions.
- Planning of preparation walls.
- Core build-up.

Check product availability in your country.



# Opallis

CE  
2797

Composite for anterior  
and posterior teeth.

**UNBEATABLE  
OPTICAL  
PROPERTIES.**



Also available  
In capsules

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

**Shade fidelity:** compatible  
with the Vita Classical®  
shade guide.



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

**Excellent polishing:**  
highly esthetic  
restorations.

Average particle size:  
0.5 microns.

## CLINICAL CASE

**Author:** Prof. Dr. Joana Souza Andrade.

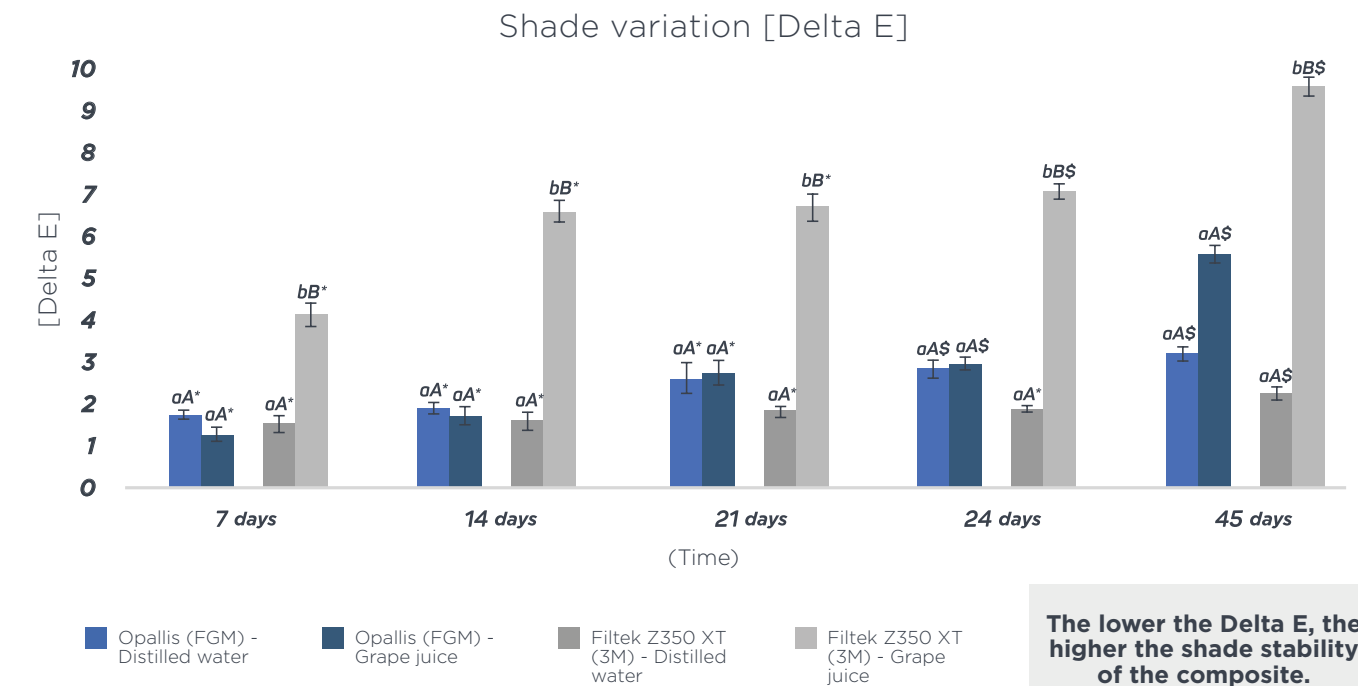


INITIAL



FINAL

## SCIENTIFIC PROOF






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

## CONCLUSION

Opallis was exposed to a highly stained and acidic solution, and even after a long period of exposure, maintained the physical integrity of the surface and a low Delta E (shade variation).

## AVAILABILITY

Basic kit	Capsules	Refill
 <p><b>Content:</b> 5 syringes with 4g in shades: EA2, EA3, EA3.5, DA2 and DA3 and 1 syringe with 2g in shade T-Neutral.</p>	 <p><b>Content:</b> package containing 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</p>	 <p><b>Content:</b> Syringe with 2g, available in shades: DA4, DC2, D-Bleach, EA4, EB3, EC2, EC3, E-Bleach H, E-Bleach M, E-Bleach L, T-Blue, T-Neutral, Opaque Pearl, Opaque White, odontopediatrics A0.5 and odontopediatrics B0.5. Syringe with 4g, available in shades: DA1, DA2, DA3, DA3.5, DB1, DB2, EA1, EA2, EA3, EA3.5, EB1, EB2.</p>

### Indications:

- Restorations of anterior teeth of classes I, II, III, IV, V and VI.
- Direct veneers with composites.

- Cementation of tooth fragments.
- Reduction or closing of diastemas.
- Core build-up.

- Teeth splinting.
- Modification of teeth's shape (e.g.: conoid teeth).
- Porcelain/composite repairs.



# Opallis FLOW

CE 2797

Fluid composite for base, lining and minimally-invasive restorations.



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



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



## AVAILABILITY

**Refill:** 1 syringe with 2g, available in shades: A1, A2, A3 (universal), T (translucent), OP, A0.5, B0.5 and OA3.5 (extraopaque), and applicator tips.

LiS

CE 2797

Composite for restorations of anterior and posterior teeth.



Also available  
In capsules



Main shades for daily use, for enamel, dentin and translucent.



**Excellent polishing:** ideal esthetic restoration.



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



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



**Average particle size:** 0.8 microns.

## AVAILABILITY

**Kit:** 5 syringes with 4g, in shades: EA2, EA3, EA3.5, EB2 and DA3 and 1 Ambar with 4ml. The item availability in this kit may vary. Consult your sales consultant.

**Refill:** 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.

**Capsules** - Content: Package containing 20 capsules of 0.2g available in shades: EA1, EA2, EA3, EA3.5, EA4, EB1, EB2, EB3, EC2, EC3, Incisal, DA1, DA2, DA3 (Universal), DA3.5 and DB2.

Primmaart

CE 2797

Bis-acrylic composite.

THE BIS-ACRYLIC  
COMPOSITE  
THAT WILL  
AMAZE YOU.



More resistance: to fracture and wear.



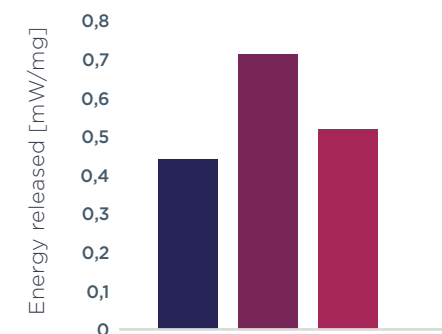
Superior esthetics: high shine and easy polishing.

40%

Economic tip: reduces material waste in up to 40%.



## SCIENTIFIC PROOF



Source: FGM Internal Data, 2019.

Low heat release

■ PrimmaArt ■ Competitor 1 ■ Competitor 2

**Composite safe for use in vital teeth.**

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

## AVAILABILITY

Cartridge		Refill	
<p><b>Content:</b> Cartridge with 75g and 10 self-mixing tips.</p> <p>Compatible with Universal dispenser gun.</p>		<p><b>Content:</b> 1 Double-body syringe with 7g and 5 self-mixing tips.</p> <p>Ideal for few elements or small demands.</p>	
Tips		Available in shades: A1, A2, A3, B1 and BLEACH.	
<p><b>Content:</b> 5 or 20 self-mixing tips.</p>			

### Indications:

• Rebasing of prefabricated temporary pieces of resin, polycarbonate or metal.

• Provisional procedures: inlays, onlays, crowns, veneers and bridges.

• Mock-ups.  
• Long-term provisionals.



# ambar

## UNIVERSAL

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

HIGH  
PERFORMANCE  
IN MOIST DENTIN.



### APS ADVANTAGES

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



Colorless aspect.

**All the qualities of Ambar APS maximized.**



**High adhesion in different forms of application:** total acid etching, selective etching on enamel and self-etching.



Versatility with minimal sensitivity.



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



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

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

**Prof. Dr. Alessandro Loguercio**

Master in esthetic dentistry (FO/UFPEL/RS),  
Doctor in dental materials (FOUSP/SP).

### IT CAN BE USED IN THREE ETCHING PROTOCOLS



#### 01 TOTAL ETCHING

After dental preparation, perform acid etching on enamel for 30 seconds and on dentin for a maximum of 15 seconds. Wash with abundant water and dry with air jet. Apply the first adhesive layer with the primer function, apply on dentin for 20 seconds, air jet for solvent evaporation. Apply a second adhesive layer on dentin and enamel, air jet for excess removal and light cure for 20 seconds.



#### 02 SELECTIVE ETCHING

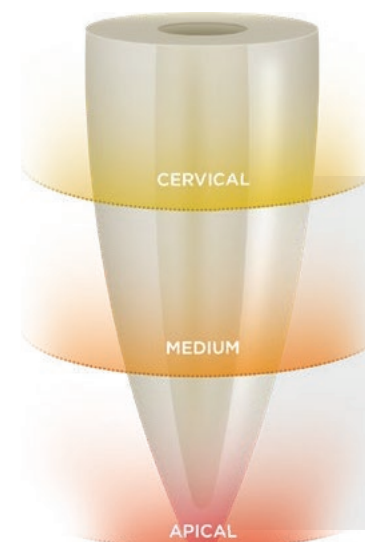
After dental preparation perform acid etching on enamel for 30 seconds. Wash with abundant water and dry with air jet. Apply the first adhesive layer with the self-etching primer function, apply on dentin for 20 seconds, air jet for solvent evaporation. Apply the second adhesive layer on dentin and enamel, air jet for excess removal and light cure for 20 seconds.



#### 03 SELF-ETCHING

After dental preparation, wash with abundant water and dry with air jet. Apply the first adhesive layer with the self-etching primer function, apply for 20 seconds on dentin, air jet for solvent evaporation. Apply the second adhesive layer on dentin and enamel, air jet for excess removal and light cure for 20 seconds.

### SCIENTIFIC PROOF

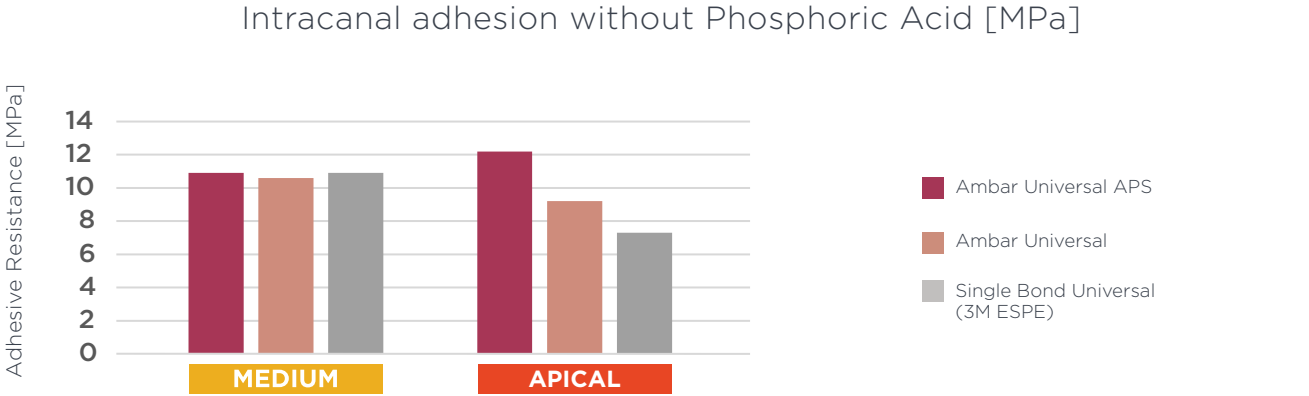


**The most recommended for intracanal application.**

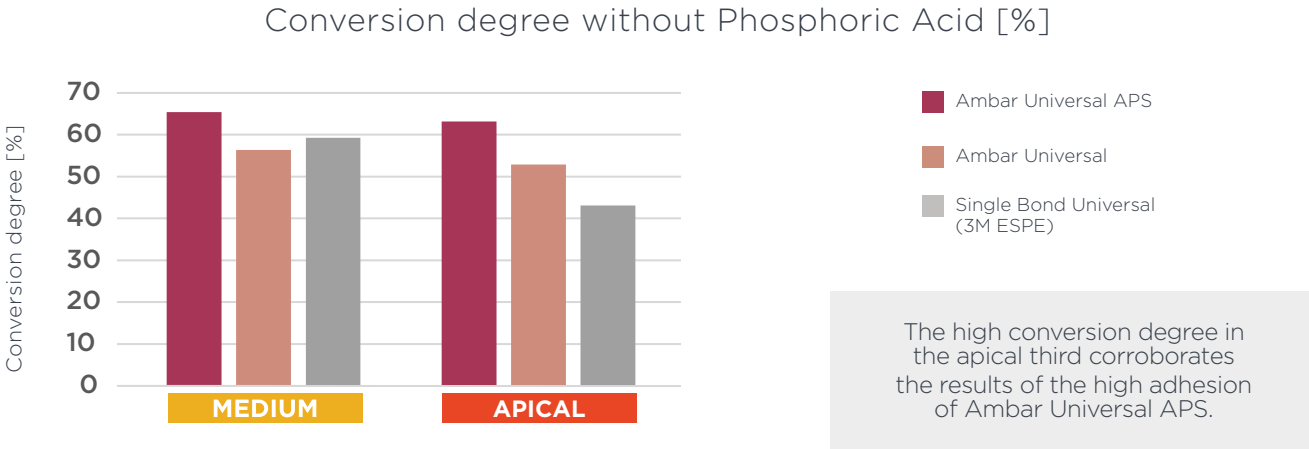
- High adhesion rates in the intracanal region.
- Better polymerization, even in the apical region.
- Greater compatibility with dual cements.
- Does not require prior acid etching.



Studies show that regardless of the acid etching and moisture level of the dentin, as is the case of the intracanal region, Ambar Universal APS has high adhesive strength:



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.

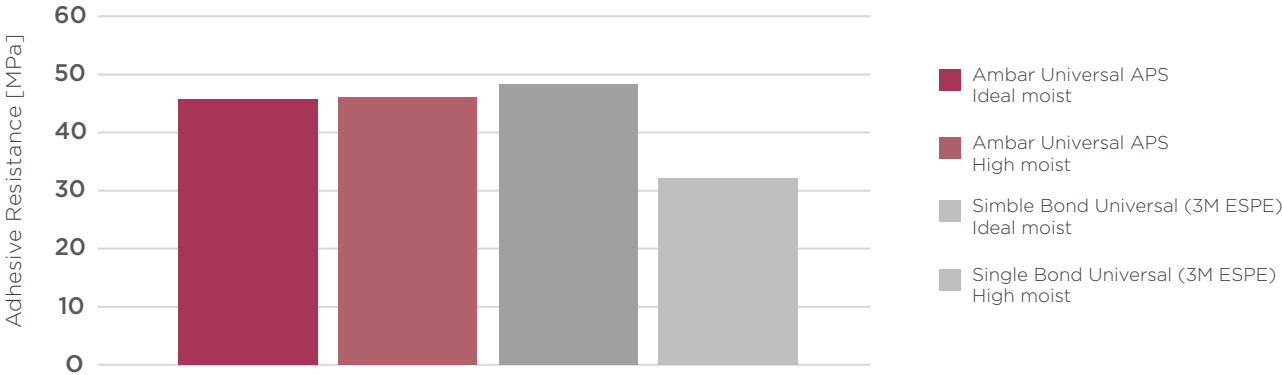


Source: V Hass et al, Effect of the Photo-initiator System Contained in Universal Adhesives on Radicular Dentin Bonding. Oper Dent 1 September 2020; 45 (5): 547-555.

**"The FGM's exclusive APS Technology brings to Ambar higher polymerization efficiency, colorless aspect and even increase its adhesive capacity."**

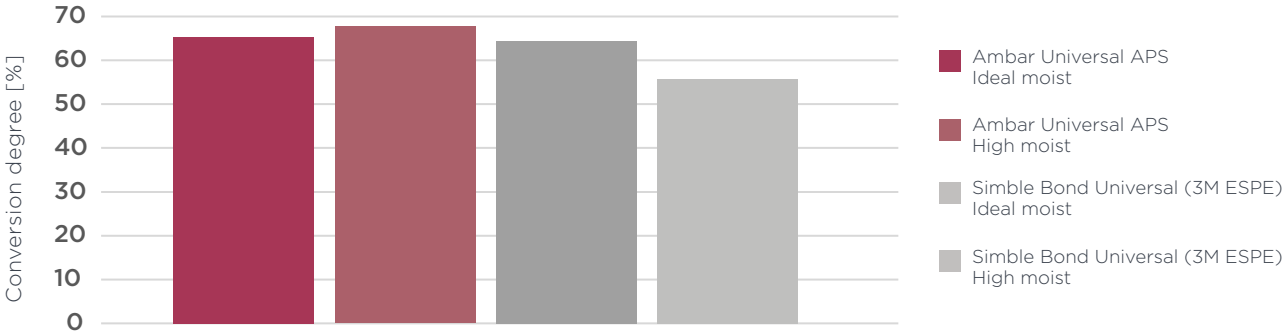
*Master in esthetic dentistry (FO/UFPEL/RS), Doctor in dental materials (FOUSP/SP).*

Bonding resistance 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.

Conversion degree without Phosphoric Acid [%]



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.

AVAILABILITY

**Refill**

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

- Indications:**
- All classes of direct restorations with composites (classes I, II, III, IV and V).
  - Adhesive luting (in addition to resin cement) of prosthetic pieces (post/cores, crowns, onlays/ inlays, veneers, etc.) made of fiberglass, ceromer, ceramics, resin and metal.
  - Use as metallic or ceramic primer.
  - Adhesive repairs in ceramic and composites.



Light-curing adhesive system for enamel and dentin.

GREATER RESISTANCE AND **ADHESIVE LONGEVITY.**



Colorless aspect.

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

**High conversion degree.**

**Lower rate** of marginal infiltration.

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

**Longevity** of adhesion.

The adhesive is ideal for application in areas where it is difficult to control the level of moisture, such as restorations in lower teeth or near the gums.

## AVAILABILITY

### Refill



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

### Indications:

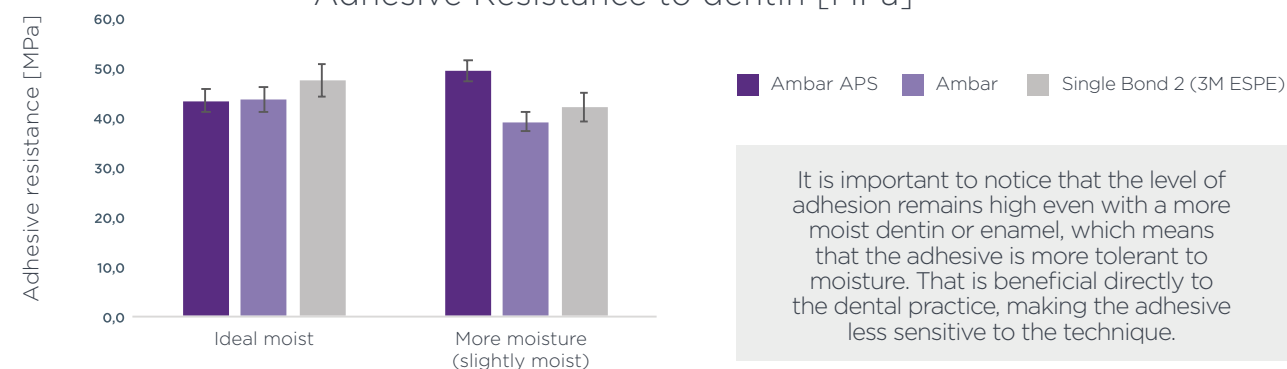
- All classes of direct restoration with composites (classes I, II, III, IV and V).
- Adhesive luting (in addition to resin cement) of prosthetic pieces (post/cores, crowns, onlays/inlays, veneers, etc.) made of fiberglass, ceromer, ceramics, resin and metal.
- Adhesive repairs in ceramic and composites.

## FINALLY A PRODUCT THAT IS NOT SENSIBLE TO MOISTURE

One of the biggest challenges of an adhesive system is to maintain performance in different moisture conditions. Ambar APS and Ambar Universal APS surpass those challenges.

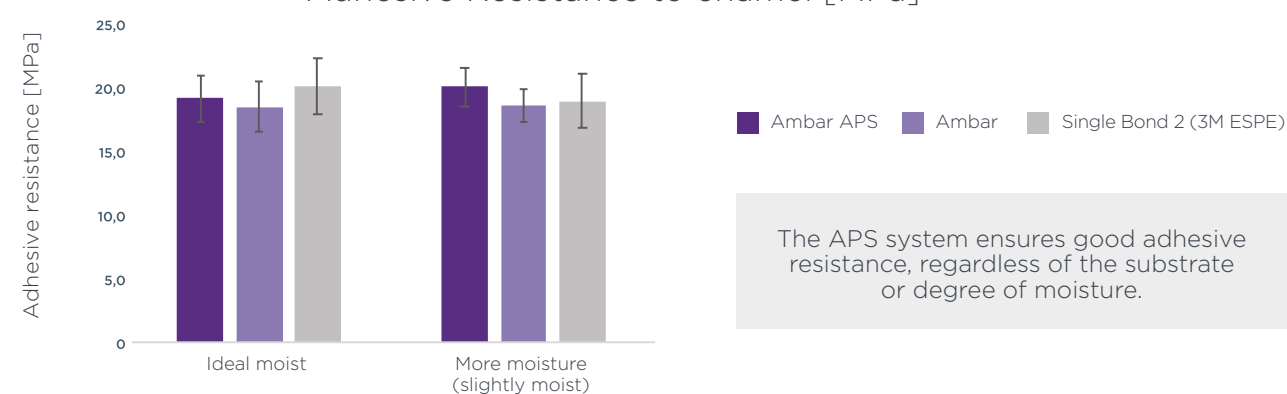
### SCIENTIFIC PROOF

#### Adhesive Resistance to dentin [MPa]



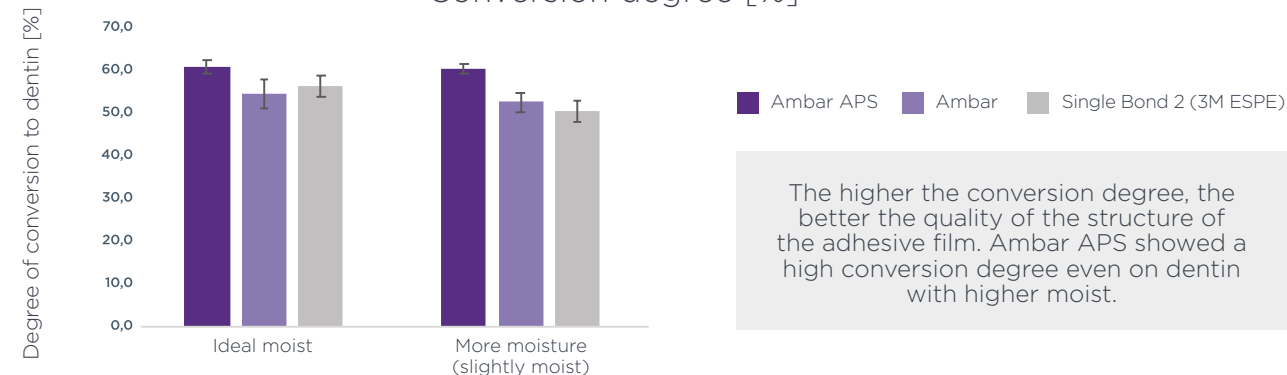
Source: Loguercio AD, et al., UEPG-PR, 2018.

#### Adhesive Resistance to enamel [MPa]



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

#### Conversion degree [%]



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



# GET TO KNOW OUR SPECIAL RESTORATION KITS



- KIT TECHNOLOGY**  
 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 UNIVERSAL**  
 1 syringe of Vittra APS Unique with 4g + Ambar Universal APS.

## Condac37<sup>CE</sup>

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



- Good solubility with water:  
**easy removal.**
- It has a differentiated color:** facilitates the control of application.
- Excellent consistency:** easy application, does not run off the application site.

### AVAILABILITY

**Refill:** 3 syringes with 2.5ml each and applicator tips.

## Condac porcelana<sup>CE</sup>

10% hydrofluoric acid gel for etching porcelain.



- Good solubility with water:  
**easy removal.**
- It has a differentiated color:** facilitates the control of application.
- Excellent consistency:** easy application, does not run off the application site.

### AVAILABILITY

**Refill:** 1 syringe with 2.5ml and applicator tips.

Check product availability in your country.



# Allcem CORE

Dual resin cement for cementation and core build-up.

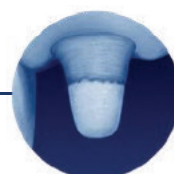
CE 2797



## 3 in 1



Post cementation



Core build-up



Crown cementation

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

**Practical use:** use of intracanal tip enables more uniform cementation and no bubbles.

**Radiopacity:**

## AVAILABILITY

**Refill:** 1 double-body syringe with 6g, available in shades A1, A2, A3 and Opaque Pearl, and nozzles with applicator tip. Package with 20 nozzles with applicator tip.

# Ortho Bite

Light-curing composite for disocclusion and band cementation.

CE 2797



**Self-leveling:** easy application.

**Self-adhesive system:** requires only previous acid etching.

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

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



## AVAILABILITY

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

# Orthocem

Cement for bracket bonding.

CE 2797



**Adhesive strength:** avoids failure throughout treatment and facilitates the removal of the bracket at the end of the treatment.

**Esthetics:** ability to resist shade variation over time, without compromising the esthetics of the smile.

**Excellent consistency:** easy application on the brackets and removal of excesses.

**UV Tracer:** allows the cement to be traced when ultraviolet light is applied, facilitating its removal, without damaging the enamel.

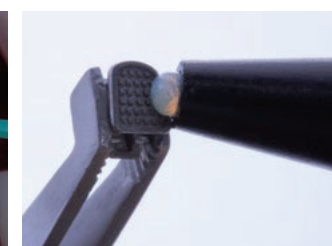
## PRODUCT APPLICATION



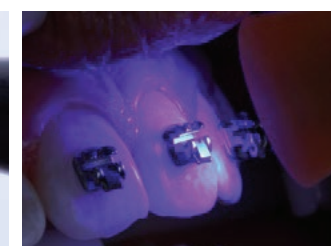
Acid etching with Condac 37% on the areas where brackets will be cemented.



Application of the Ambar APS adhesive.



Application of Orthocem cement onto the texture of the bracket.



Photopolymerization of the orthodontic cement.

## AVAILABILITY

Kit	Refill
<p><b>Content:</b> 1 syringe with 4g and 1 syringe of Condac 37 with 2.5 ml with 2.5ml and applicator tips.</p>	<p><b>Content:</b> 1 syringe with 4g.</p>

**Indications:** Cementation of orthodontic brackets of polycarbonate, metal and ceramics.

Check product availability in your country.



# Diamond master<sup>CE</sup>

Finishing and polishing kit for all restorative materials.

+  **Excellent polishing:**  
for various surfaces.

\$ **Best cost-benefit**  
in the market.



## AVAILABILITY

**Kit:** 1 Diamond Excel syringe with 2g, 36 sandpaper disks divided into the granulations: thick, medium and thin, 14 Diamond Flex disks, 1 mandrel for straight pieces, 1 mandrel for handpiece and tips.

# Diamond pro<sup>CE</sup>

Disks for finishing and pre-polishing.

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

 **Quick fitting:**  
greater practicality.

 **No metal parts:** prevents damage  
to the composite during polishing.

4 **Available in 4 granulations.**



## AVAILABILITY

**Refill:** 26 sandpaper disks in granulations: thick and medium with diameters of 8 and/or 12mm and 1 mandrel.

**Kit:** 56 Diamond Pro sandpaper disks in four granulations: thick, medium, thin and extra fine and 1 mandrel.

# Diamond<sup>CE</sup>

Felt disks for polishing.

+  **Excellent polishing:**  
for various surfaces.

 **Quick fitting:**  
greater practicality.

 **Use with:**  
polishing paste.



## AVAILABILITY

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

# Diamond flex<sup>CE</sup>

Flexible felt disks for polishing.

+  **Excellent polishing:**  
for various surfaces.

 **Quick fitting:**  
greater practicality.

 **Use with:**  
polishing paste.

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




## AVAILABILITY


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



# Diamond Ac I & II <sup>CE</sup>

Aluminum oxide polishing paste for pre-polishing.

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

 **Thixotropic effect:** does not run off the application site.




## AVAILABILITY


**Kit:** 1 Diamond ACI syringe with 4g, 1 Diamond ACII syringe with 4g and applicator tips.

# Diamond R <sup>CE</sup>

Aluminum oxide composite polishing paste.

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

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

 **Thixotropic effect:** does not run off the application site.



## AVAILABILITY

**Refill:** 1 syringe with 4g and applicator tip.

# Diamond excel <sup>CE</sup>

Micronized diamond-based universal polishing paste.

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

## AVAILABILITY

**Refill:** 1 syringe with 2g and applicator tip.

L A U N C H

# DIAMOND EXCEL ULTRAFINE

Universal polishing paste.





## Outstanding Surface High Polish & Gloss

 **Universal polishing:** can be used with all restorative materials.

 **Thixotropic effect:** does not drip in an undesirable manner.

 **Ultrafine Diamond:** 0.5 $\mu$ m in size.

 **Unique Consistency:** Adheres to the surface creating a long-lasting high shine protective pellicule.

 **Esthetics:** truly outstanding polish & gloss.

## AVAILABILITY

### Refill



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





# PRESENT IN 100+ COUNTRIES

OVER  
**7.000**  
WHITENESS  
TREATMENTS PER DAY  
IN THE WORLD


MARKET  
LEADER  
IN **15** COUNTRIES


SCIENTIFICALLY-  
PROVEN  
QUALITY

WHITENESS  
PERFECT **4x** AWARDED  
TAKE-HOME WHITENING IN THE USA  
BY DENTAL ADVISOR

PORTFOLIO WITH OVER **400** PRODUCTS

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