

LEADERSHIP AND HIGH ESTHETICS

PRODUCT PORTFOLIO



FGM
DENTAL
GROUP

THE TRADEMARK OF YOUR SMILE.

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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wit

Leadership proved and approved by
the one who knows best about
dental whitening: you.





wit

ESSENTIAL

Carbamide peroxide at 16% and 22%.

LEADERSHIP AND HIGH ESTHETICS LIKE NO OTHER



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: **16% and 22%.**



WEARING TIME

16%: 3 to 4 hours a day or overnight use.

22%: 1 hour a day.

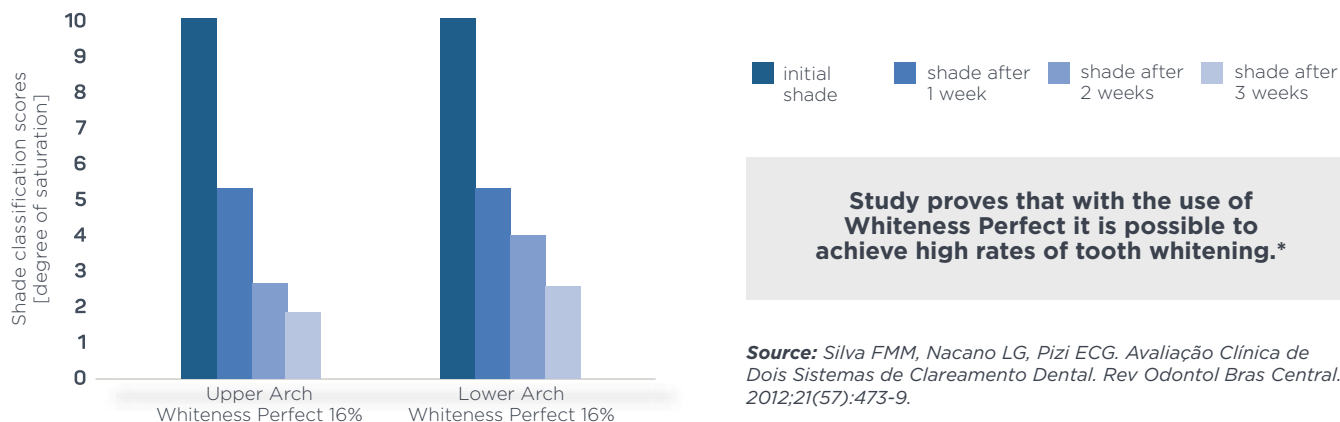
“FGM’s Whiteness line is a reference in whitening gels. We can use Whiteness Perfect, for the take-home technique, in the concentration from 10% to 22%. I conducted several studies already published in articles and books with these materials and I use them daily in the office and in courses, normally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

Prof. Dr. Fabiano Marson

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

SCIENTIFIC PROOF

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.

*Wit Essential is named after Whiteness Perfect in countries other than the USA.

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



wit

ESSENTIAL
XTRA

Hydrogen peroxide at 7.5% and 10%.



WHITER TEETH
WITH SHORTER
WEARING TIME.



Best desensitizing package:

- Potassium Nitrate.
- Fluoride.



With calcium: prevents demineralization.



SHORTER WEARING TIME:

7.5%: 1 hour a day.

10%: 30 minutes a day.

CLINICAL CASE

Author: Prof. Dr. Fábio Sene.



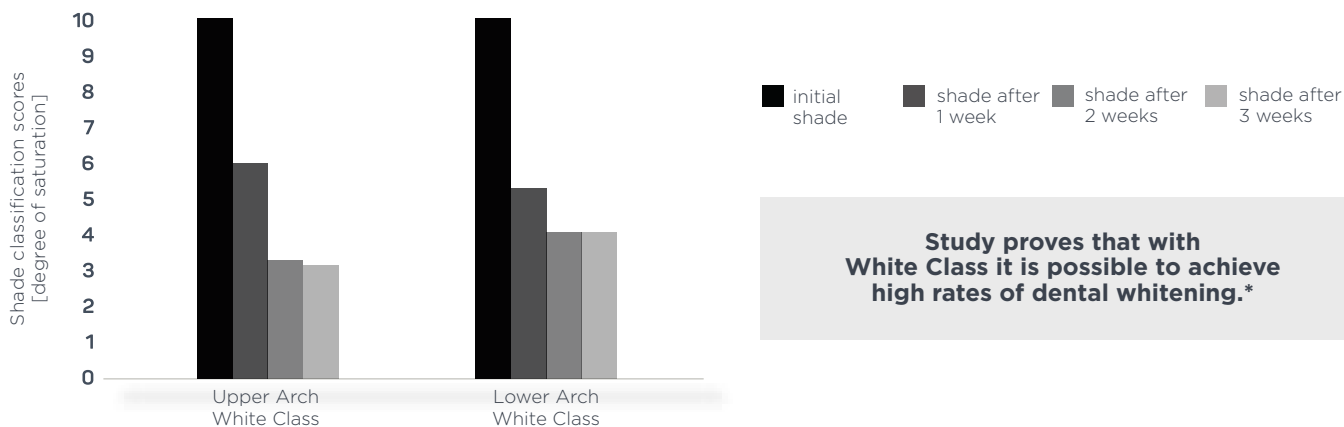
INITIAL



FINAL

SCIENTIFIC PROOF

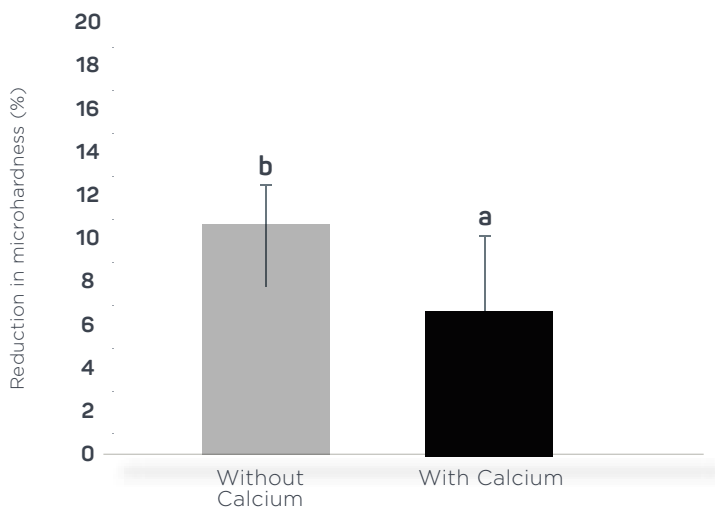
Shade changes at different times of the evaluation for the whitening agent in the upper and lower arches.



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.

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.

*Wit Essential Xtra is named after White Class in countries other than the USA.

AVAILABILITY

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

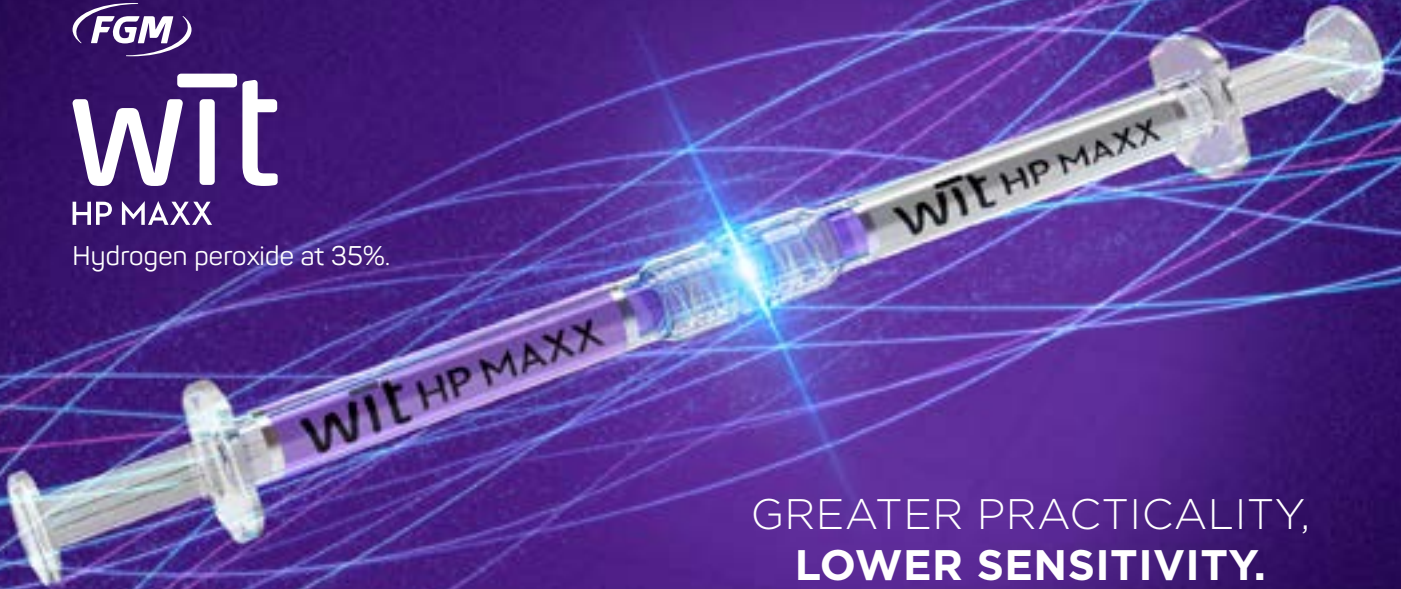
Images for illustration purposes only. Check product availability.



wit

HP MAXX

Hydrogen peroxide at 35%.



GREATER PRACTICALITY, LOWER SENSITIVITY.



With calcium:
remineralizing action.



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



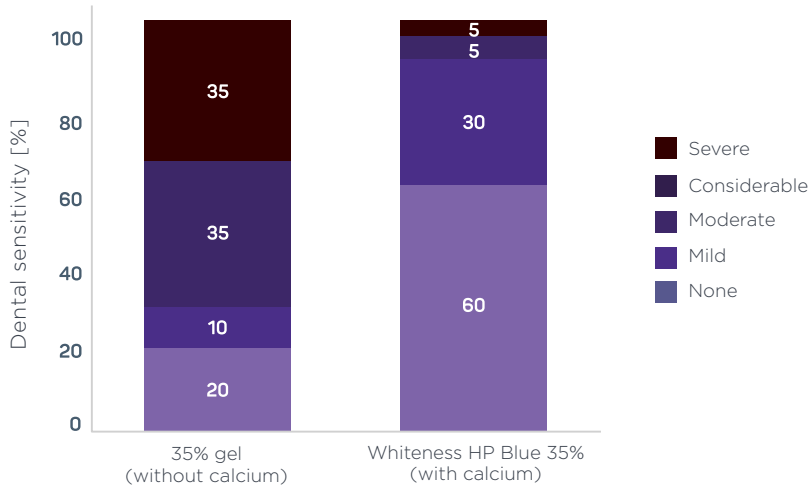
Content: 6 sets of syringes (1.2g per set - 7.2g of gel in total), 1 Neutralize with 2g, 1 Top dam with 2g, 6 coupling devices for the syringes and applicator tips.

Mini Kit



Content: 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.

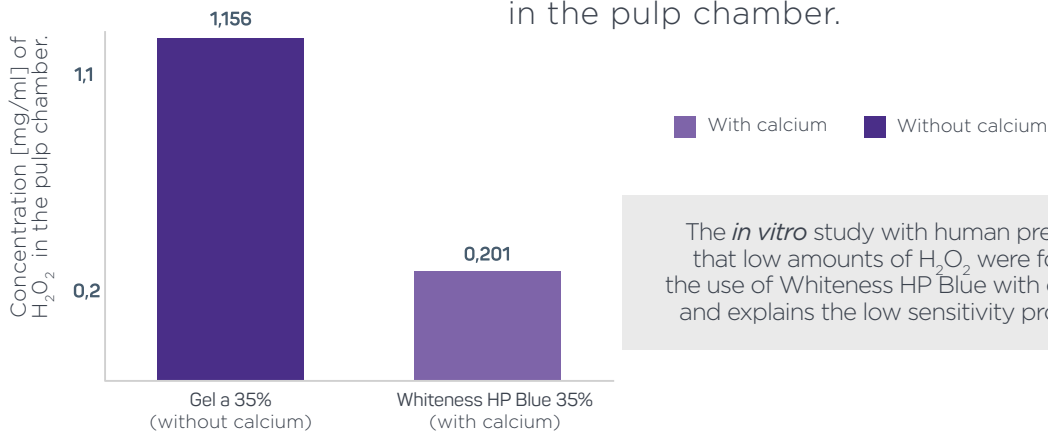
Dental sensitivity [%]



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

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

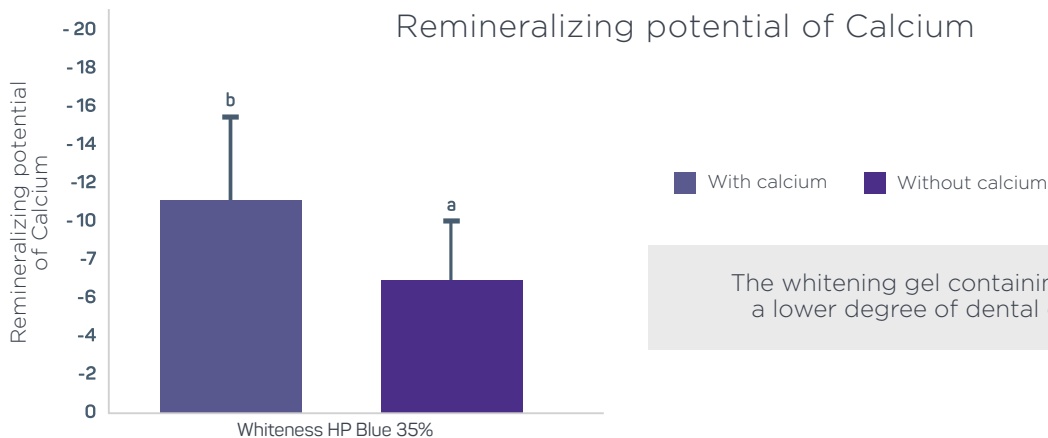
Concentration [mg/ml] of H₂O₂ in the pulp chamber.



The *in vitro* study with human premolars demonstrated that low amounts of H₂O₂ were found in the pulp after the use of Whiteness HP Blue with calcium, which confirms and explains the low sensitivity provided 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.

Remineralizing potential of Calcium



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

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

*Wit HP Maxx is named after Whiteness HP Blue in countries other than the USA.

Images for illustration purposes only. Check product availability.



wit

HP AUTOMIXX

Hydrogen peroxide at 35%.

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



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



With calcium: remineralizing action.



Heat blocker: prevents dental heating when using light sources.



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



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

CLINICAL CASE

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



INITIAL



FINAL

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.

Top dam^{CE}

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.

arcflex^{CE}

Lip retractor.

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

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

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



AVAILABILITY

Package containing 1 retractor size M or L.
Package containing 2 retractors M and L.

Technology

APS

**ADVANCED
POLYMERIZATION
SYSTEM**

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.16



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.19



Ambar APS and Ambar Universal APS

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

— p.24



Allcem Veneer APS

Light-curing resin composite for prep and no-prep veneers. Excellent shade stability and esthetic longevity.

— p.32



Opus Bulk Fill APS and Opus Bulk Fill Flow APS

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

— p.21

Vittra

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.

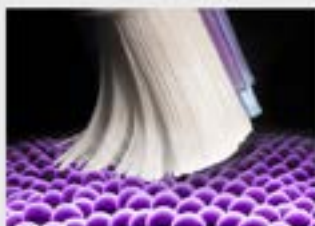
High mechanical
performance and esthetics.

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

Sub-micrometric load of 200 mm.

*According to study conducted by Dr. Rodrigo Reis.

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



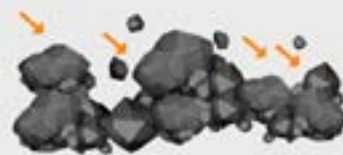
Simulation of brushing over the surface of the Vittra APS composite.



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

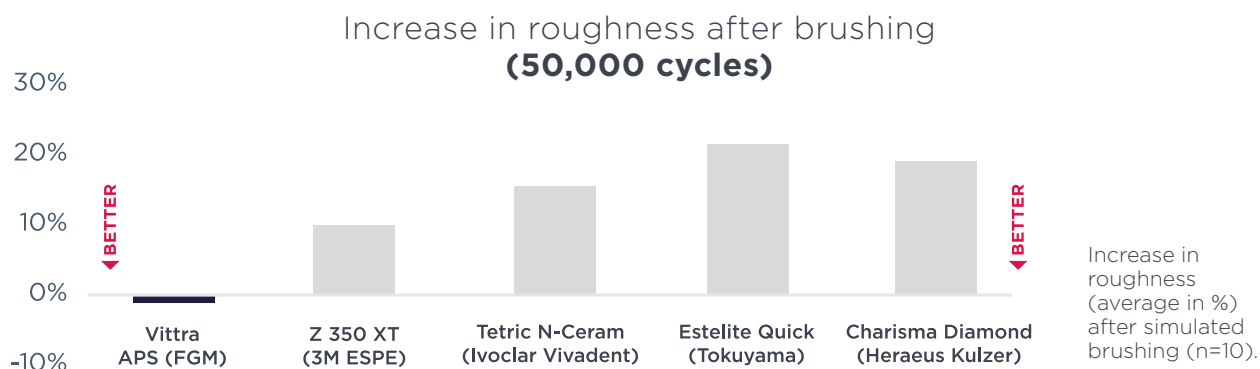


Simulation of brushing over a non-spheroidal composite surface.



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

SCIENTIFIC PROOF



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

CONCLUSION

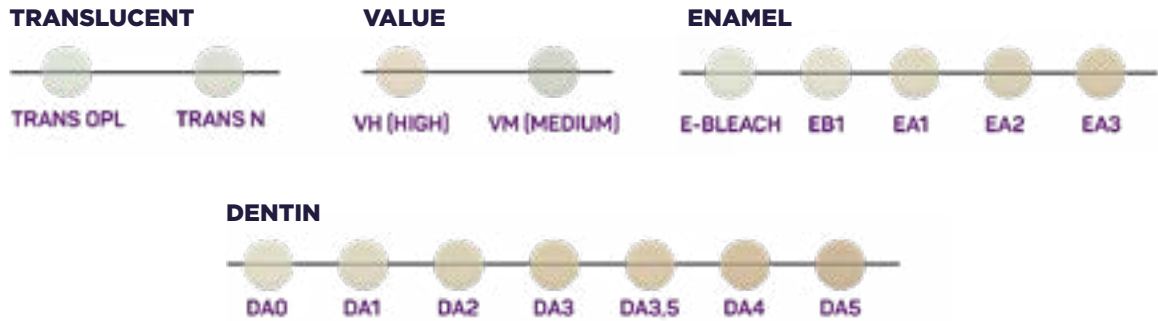
Vittra APS was the only composite that did not show an increase in superficial roughness after simulated brushing, **demonstrating excellent resistance to abrasion and great polishing longevity.**

“ 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 Reginato.





INITIAL



FINAL

AVAILABILITY

Refill	Capsules
 <p>Syringes with 4g available in the colors: DA1, DA2, DA3, DA3,5; EA1, EA2, EA3, EB1 e E-Bleach.</p> <p>Syringes with 2g available in the colors: DA0, DA4, DA5, VM, VH, Trans OPL e Trans N.</p>	 <p>Package containing 20 capsules of 0.2g available in shades: 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^{APS} CE 2797

UNIQUE

Universal chroma composite with capacity to match the tooth shade.

FAST AND PRACTICAL PROCEDURES?
CHOOSE UNIQUE.

Composite and syringe free of Bisphenol A.



Also available
In capsules



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**.



One shade for all shades:

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



High esthetics and mechanical resistance:

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



It does not require shade selection and, therefore, allows for faster restorative 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: Prof. Dr. Fábio Sene.



Author: Prof. Dr. Dayse Amaral.

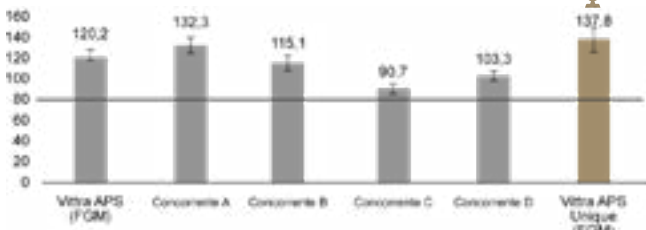


Authors: Dr. Carlos E. Francci, Dr. Alexander C. Nishida and Dr. Guilherme de S. F. Anzaloni Saavedra.



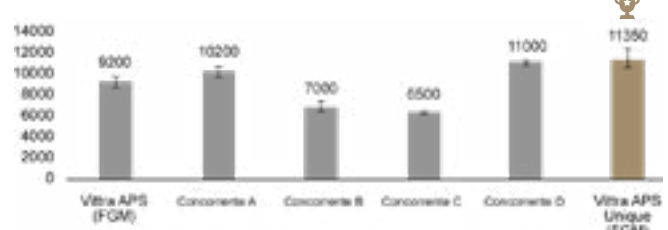
SCIENTIFIC PROOF

Flexural strenght (MPa*)



Vitra 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*)



Vitra 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 Materials Dentários. 12ª Edição. Rio de Janeiro: Elsevier, 2013.

AVAILABILITY

Refill



Syringe with 4g: one shade for all shades.

Capsules



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 Vitra 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 Vitra APS Unique in the incremental way.

OPUS BULK FILL ^{CE 2797} APS

Composite for single filling of posterior teeth.

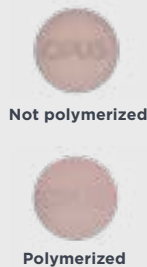
FILL UP ALL THE REQUIREMENTS OF A **PERFECT RESTORATION.**



Also available
In capsules

APS 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.

*When compared to conventional restorative procedures.

OPUS BULK FILL FLOW

CE 2797

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*



Anti-gravity effect: ideal for application to upper teeth.



Self-leveling: perfect adaptation to the cavity walls.



Indicated as the base of restorations: it should be covered by composite of dense consistency.

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.

*When compared to conventional restorative procedures.



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.



Average particle size: 0.8 microns.



High shade stability: esthetic longevity of the restoration.

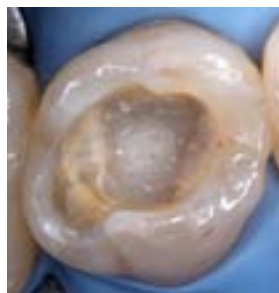


Excellent consistency: easy handling and application.



CLINICAL CASE

Author: Prof. Dr. Maciel Jr.



INITIAL

FINAL

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.

ambar^{APS} CE 2797

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



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.



SELECTIVE ETCHING

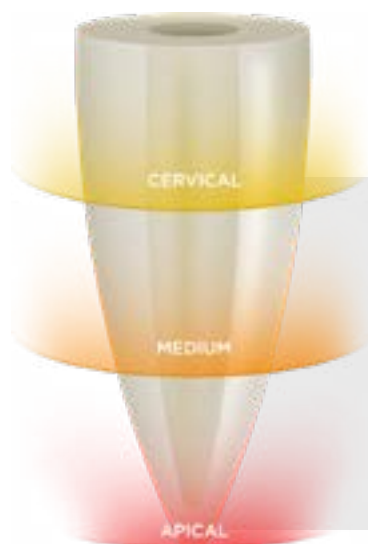
After dental preparation perform acid etching on enamel for 30 seconds. Wash with abundant water and dry with air jet. Apply the first adhesive layer with the self-etching primer function, apply on dentin for 20 seconds, air jet for solvent evaporation. Apply the second adhesive layer on dentin and enamel,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



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

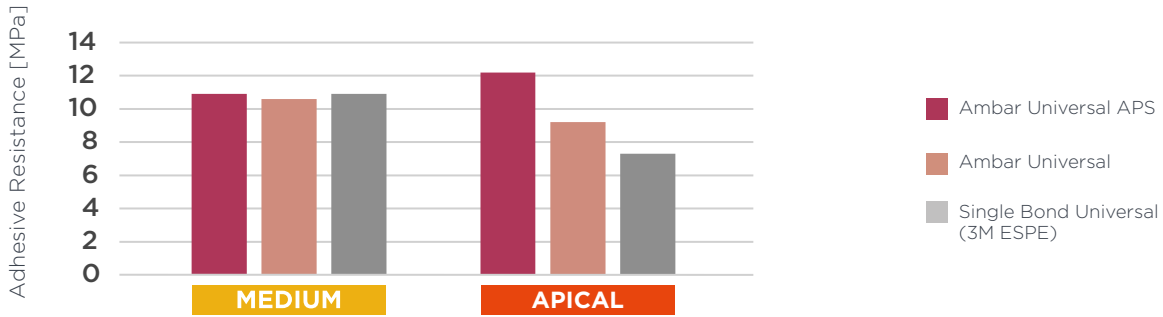


The most recommended for intracanal application.

- 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.

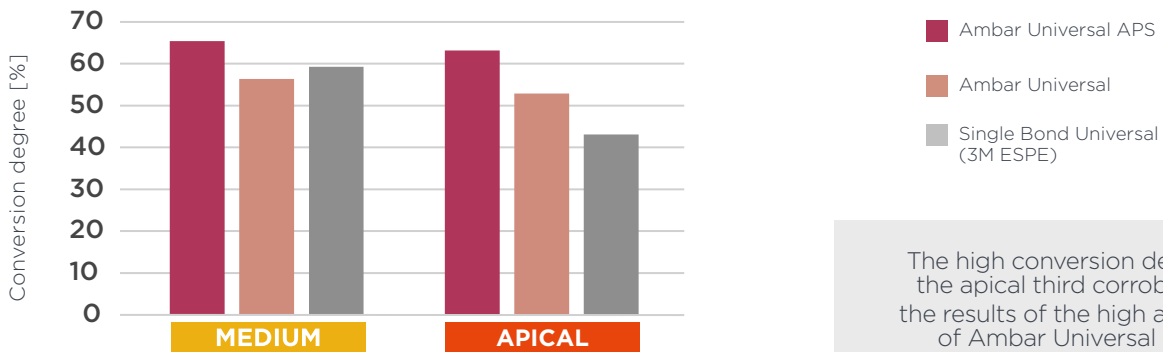
Studies show that regardless of the acid etching and moisture level of the dentin, as is the case of the intracanal region, Ambar Universal APS has high adhesive strength:

Intracanal adhesion without Phosphoric Acid [MPa]



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.

Conversion degree without Phosphoric Acid [%]



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

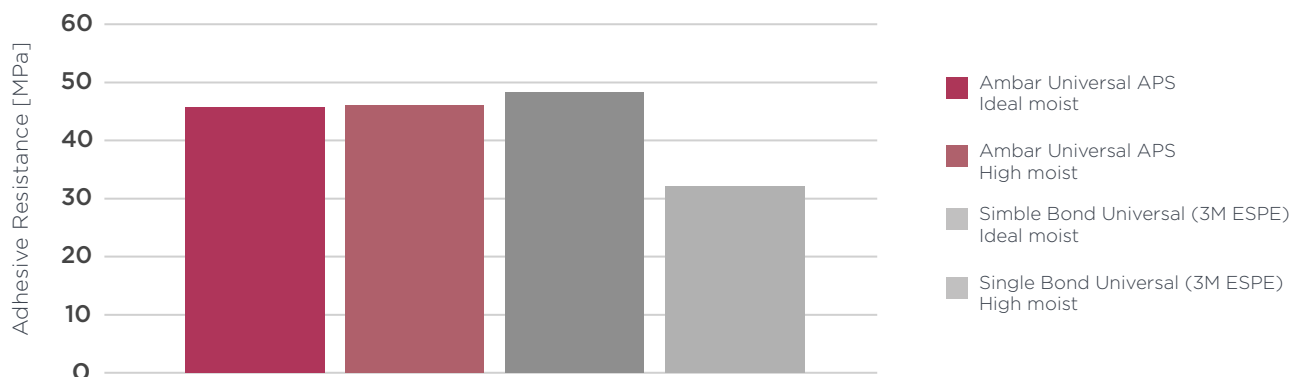
Source: V Hass et al, Effect of the Photo-initiator System Contained in Universal Adhesives on Radicular Dentin Bonding. Oper Dent 1 September 2020; 45 (5): 547-555.



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

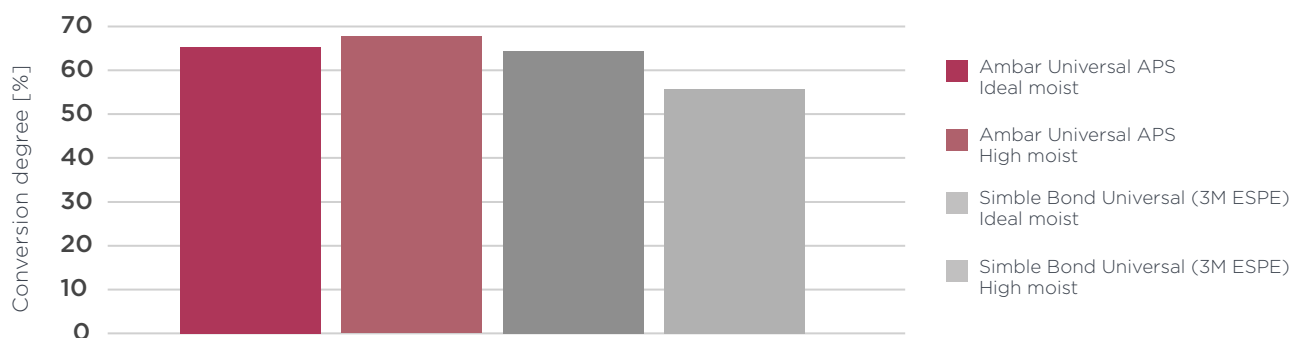
Master in esthetic dentistry (FGV/UFPEL/RS), Doctor in dental materials (FOUSP/SP).

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.

ambar

APS CE 2797

Light-curing adhesive system for enamel and dentin.

GREATER RESISTANCE AND **ADHESIVE LONGEVITY.**



APS ADVANTAGES

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



Colorless aspect.



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



Lower rate of marginal infiltration.



Longevity of adhesion.



High conversion degree.



Formation of a more resistant adhesive film.



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.

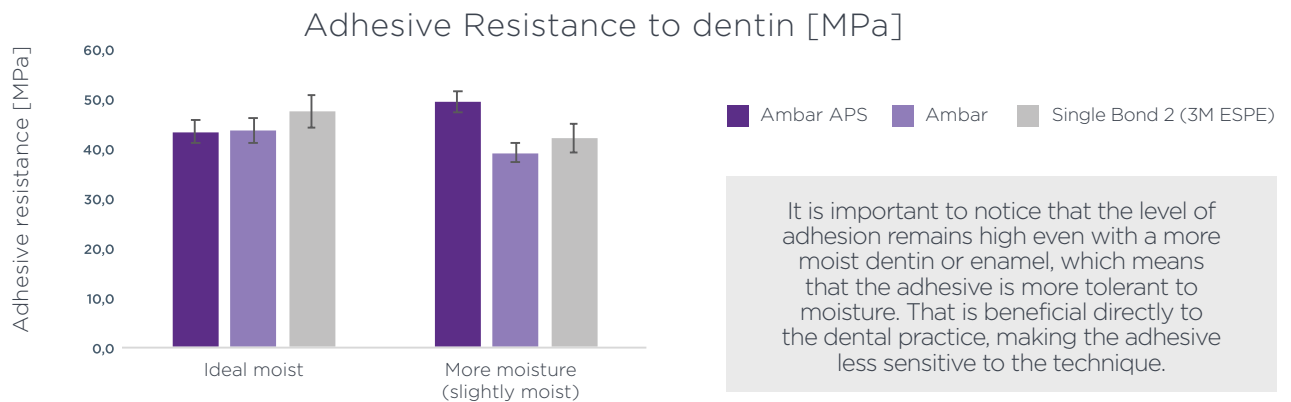
Indications:

- 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.

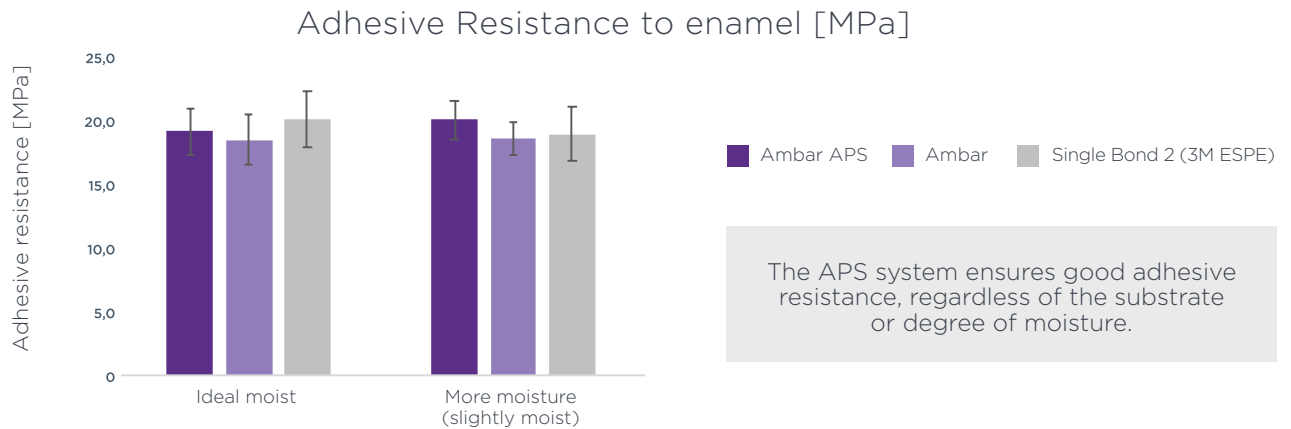
FINALLY A PRODUCT THAT IS NOT SENSIBLE TO MOISTURE

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.

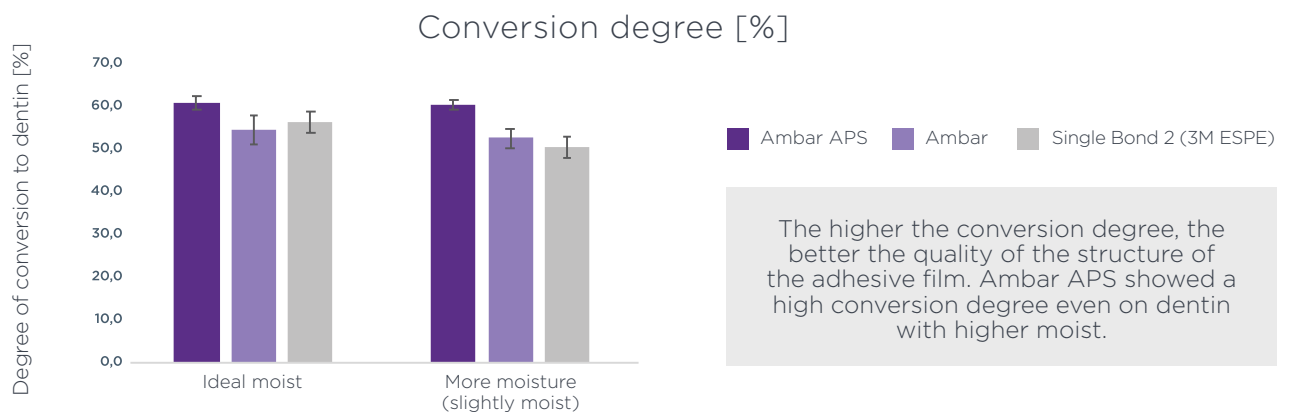
SCIENTIFIC PROOF



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



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



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



Whitepost SYSTEM

Fiberglass posts.

A DAZZLING SOLUTION HAS BECOME EVEN BETTER



Excellent translucency: post with high esthetic capacity.



Excellent light conductivity: helps in cement and adhesive polymerization.



Double taper: better adaptation to the root canal without requiring greater wear and tear of the dental structure.

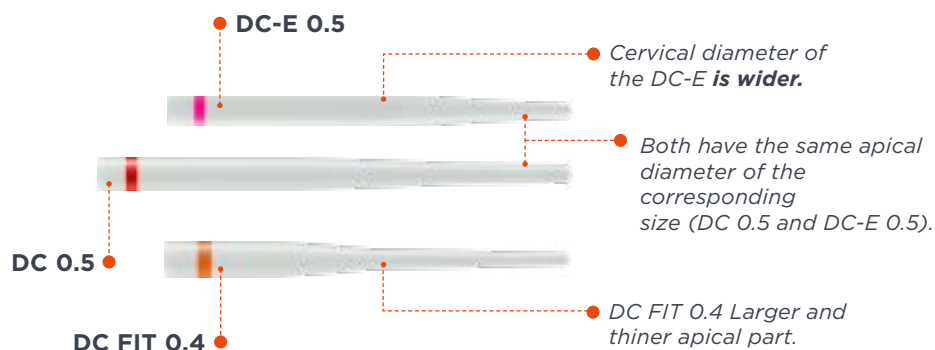


Radiopacity.

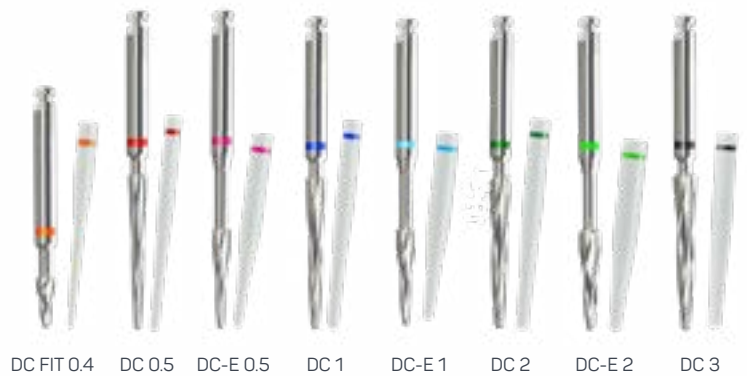
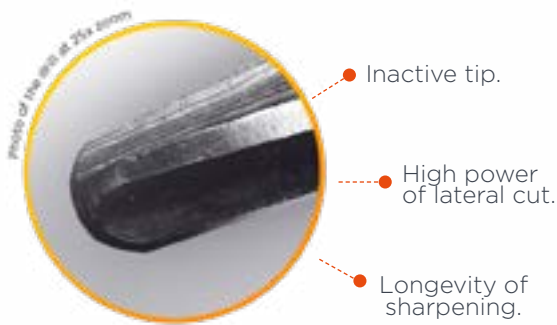


The fiberglass post has come to change our clinical alternatives, in a faster and safer way, besides offering a spectacular force dissipation.

Dr. Marcelo Alves



DC FIT 0.4: Minimally invasive design, to more conservative endodontic cases. Developed according to the most modern endodontic instruments to the preparation finishing.



CLINICAL CASE

Author: Raphael Monte Alto.



Initial



Cemented post



Final

AVAILABILITY

Kit	Kit Intro	Refill
 <p>DC 0.5, DC 1, DC 2, DC 3 and DC-E2 Content: 5 posts of each size (totaling 25 posts), respective drills and guide for post selection.</p>	 <p>DC FIT 0.4, DC 0.5, DC 1 and DC 2 and DC 3 Content: 5 posts of the same size and respective drill.</p>	 <p>DC FIT 0.4, DC 0.5, DC 1, DC 2 and DC 3 Content: 5 posts of the same size.</p>
 <p>DC 0.5, DC-E 0.5, DC 1, DC-E 1 and DC-E2 Content: 5 posts of each size (totaling 25 posts), respective drills and guide for posts selection.</p>	 <p>DC-E 0.5, DC-E 1 and DC-E 2 Content: 5 posts of the same size and respective drill.</p>	 <p>DC-E 0.5, DC-E 1 and DC-E 2 Content: 5 posts of the same size.</p>

Indications: Support for restorations and prosthetic crowns in cases with an insufficient residual structures.

Check product availability in your country.

Allcem Veneer APS

CE 2797

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

TOTAL CONTROL OF CEMENTATION.

2021

REALITY

RATINGS & REVIEWS

Four Star Award



APS ADVANTAGES

- Longer working time for veneer positioning in bright environment.
- Maximum esthetic predictability: no variation in shade and opacity after polymerization.



Thixotropy: excellent handling.



Combination with Allcem Veneer Try-in: shade predictability.



With fluorescence: aspect similar to a natural tooth.



Shade stability: esthetic longevity.



63% weight load: excellent mechanical properties.

AVAILABILITY

MiniKit



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 applicator tips.

Refill



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



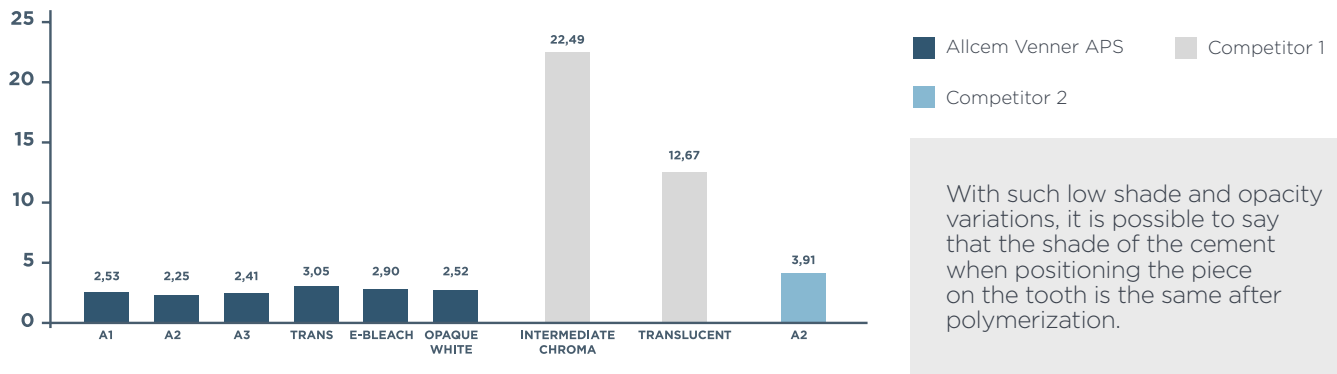
Content: 1 Try-in with 2g, shades: A1, A2, A3, Trans, Opaque White or E-Bleach M, and applicator tips.

Indications:

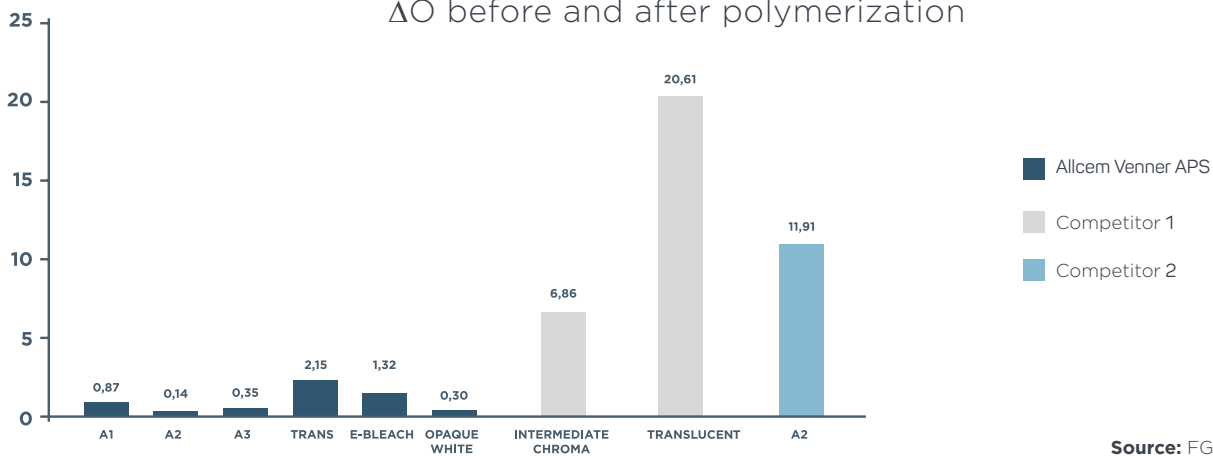
Adhesive luting of ceramic and composite restorations (fabricated at the chair-side or in the laboratory) with a low layer thickness (up to 1.5mm) that enable the use of a pure light-curing technique due to their high translucency.

SCIENTIFIC PROOF

ΔE before and after polymerization



ΔO before and after polymerization



Source: FGM Internal Data.

“Allcem Vener APS provides shade stability prior to and after photopolymerization and an increase in working time. Another great advantage are the shades of the Try-in pastes, very similar to the shades of the cement. In other words, by using this material you can run more reliable tests.”

Prof. Dr. Paulo Quagliatto

Coordinator for the Training Course in esthetic dentistry at APCD Ribeirão Preto.

CLINICAL CASE

Author: Prof. Dr. Leandro Martins.



INITIAL



FINAL

Allcem CORE ^{CE 2797}

Dual resin cement for cementation and core build-up.



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 ^{CE 2797}


Light-curing composite for disocclusion and band cementation.



 **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

CE
2797

Cement for bracket bonding.



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

Refill



Content: 1 syringe with 4g.

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

Check product availability in your country.

Diamond master ^{CE}

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 ^{CE}

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.

 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^{CE}

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^{CE}

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 ^{CE}

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 ^{CE}

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 ^{CE}

Micronized diamond-based universal polishing paste.

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

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



AVAILABILITY

Refill: 1 syringe with 2g and applicator tip.

FGM QUALITY ACKNOWLEDGED INTERNATIONALLY.

WIT ESSENTIAL

awarded for the third
year in a row as THE BEST
TAKE-HOME WHITENING
GEL IN THE USA by
Dental Advisor.



ALLCEM VENEER APS

QUALITY
ACKNOWLEDGED
by Reality Ratings



Find out more
on OUR BLOG



WIT ESSENTIAL
ALLCEM VENEER APS

