

A close-up photograph of a person's upper and lower teeth. The teeth are bright white and appear to be made of a composite material. The background is a soft, pinkish-red color, likely the gums. The text is overlaid on the image.

Thoroughbred Direct Composites

*Michael Smith DMD
Biting Education PLC
Clinical Mastery Series
Sponsored By IVOCLAR*



Thanks
Ivoclar
Brasseler
Garrison

Think Big
Life is Limitless

MikeSmith

The Biting Edge

FAMILY DENTISTRY

AESTHETIC, CONTEMPORARY RESTORATIVE,
ORTHODONTICS & COSMETIC REHABILITATION
THREE GENERATIONS IN ARIZONA

www.thebitingedge.com

Michael Alan Smith, DMD |

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721 W. GLENDALE AVENUE, PHOENIX, ARIZONA 85021 TEL 602.279.7312

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The New Generation of Dental Education.

The Biting Edge™



Why Composite

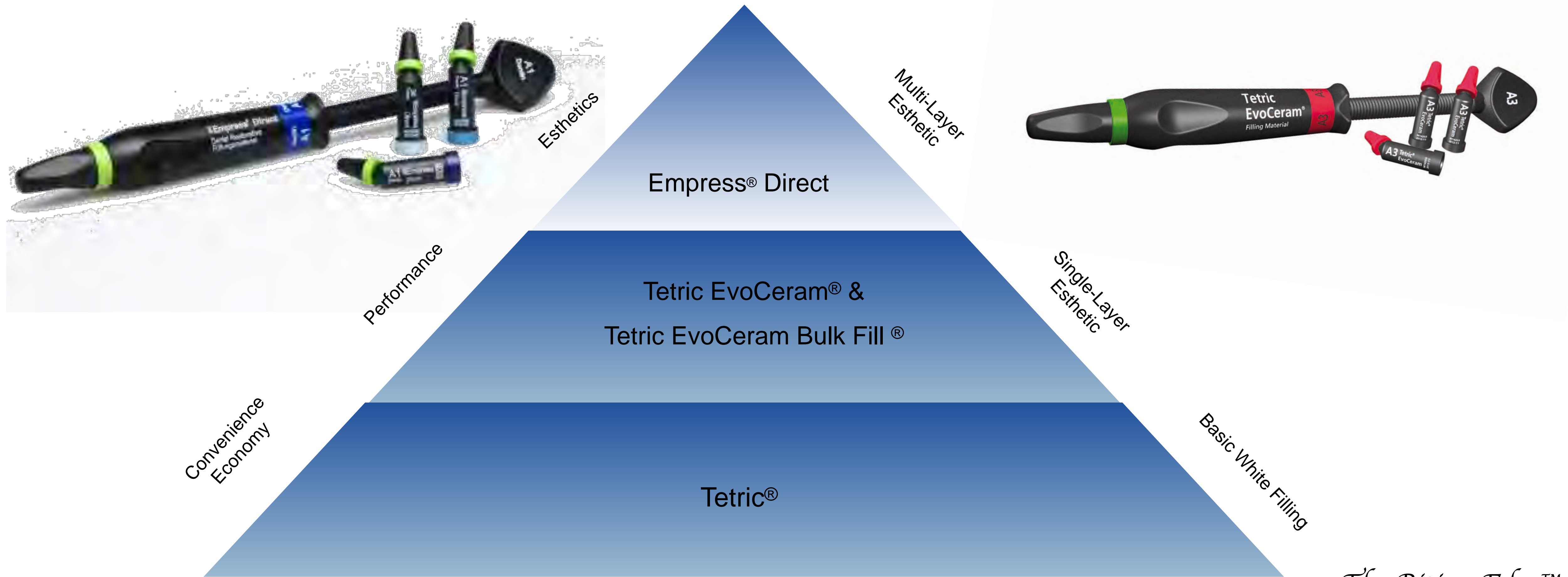


What are you looking for in your direct composites?

- Is it Versatile
- How does it Handle
- Ability to Polish
- Multiple Shade Selection
 - Value, Chroma, Hue
- How does it wear, is it durable
- Cost



Ivoclar Vivadent Composites



Tetric EvoCeram[®]



Tetric EvoCeram

The universal composite for anterior and posterior restorations

DESCRIPTION

IMAGES & VIDEOS

RESOURCES

Tetric EvoCeram

Tetric EvoCeram is the universal nano-hybrid composite for anterior and posterior restorations that offers outstanding esthetics. The filler technology found in Tetric EvoCeram is based on an optimum blend of different fillers and filler sizes.

Advantages

- Universal nano-hybrid composite for anterior and posterior restorations
- Proven clinical performance with over 150 million restorations placed worldwide
- More working time due to the patented light sensitivity filter
- Refractive Index technology ensures outstanding restorative results
- Long working time with a fast curing time
- Industry leading radiopacity
- 22 shades and 3 levels of translucency



BUY NOW

Versatile

All areas with great handling

The Biting Edge™

Tetric EvoCeram[®] Bulk Fill & Tetric EvoFlow[®] Bulk Fill

High Performance Posterior Composite System



Tetric EvoCeram Bulk Fill

Sculptable and efficient 4-mm bulk-fill posterior composite

DESCRIPTION

IMAGES & VIDEOS

RESOURCES

Tetric EvoCeram Bulk Fill

The first 4mm posterior composite with Ivocerin

Ivocerin is a patented photo-initiator that is more reactive to curing than conventional initiators, resulting in a deeper, more effective cure.

Tetric EvoCeram Bulk Fill now features:

- Single-layer placement up to 4mm for faster procedures
- Low shrinkage and low shrinkage stress for superior margins
- Nano-filler technology for improved strength, high-gloss polish and low wear
- Three universal shades for more esthetic options (Universal A (IVA), Universal B (IVB), and Universal White (IVW)).



Simplify Direct Posterior

Single stage or reduced layering

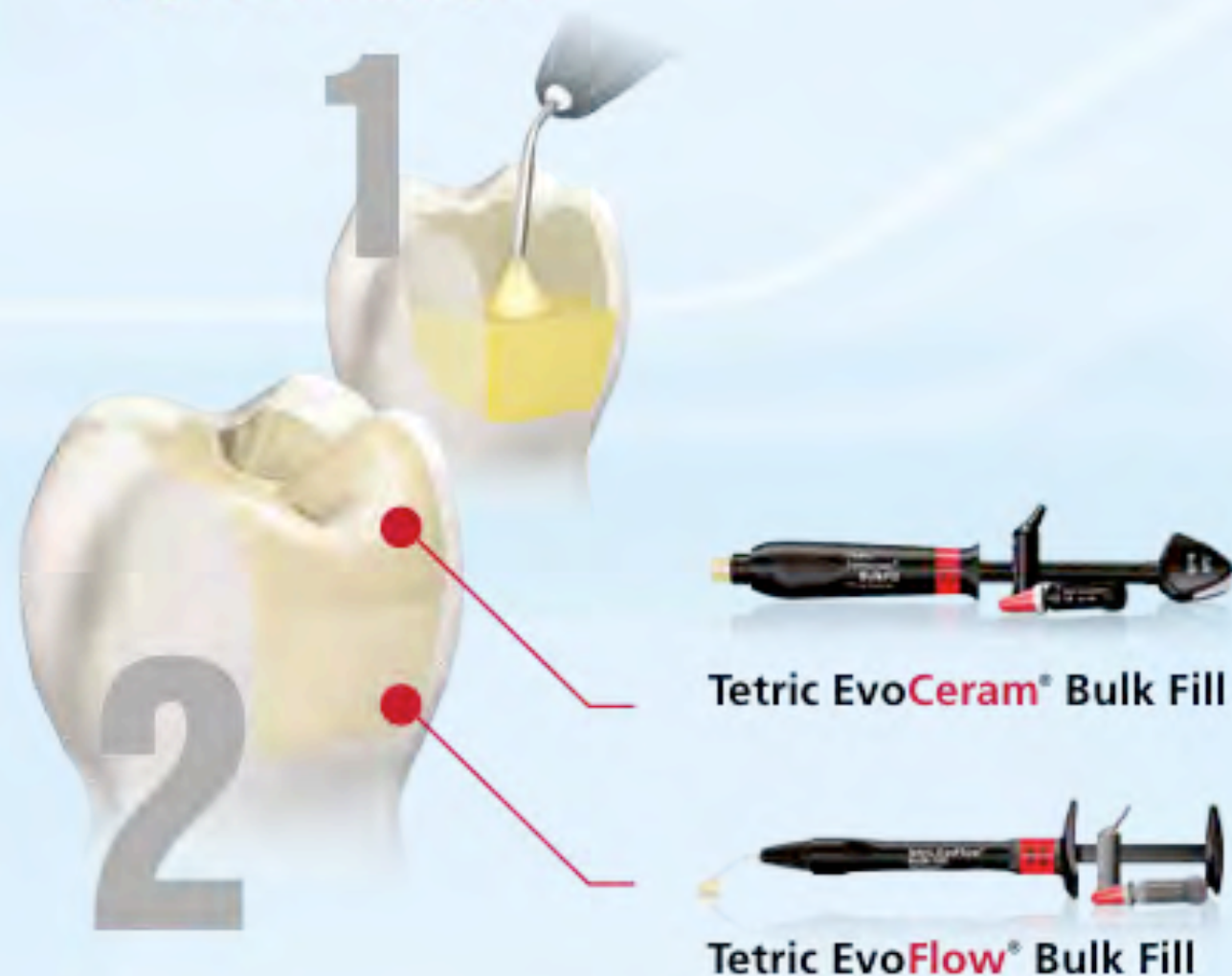
The Biting Edge™

Efficient posterior restorations

Single-layer technique



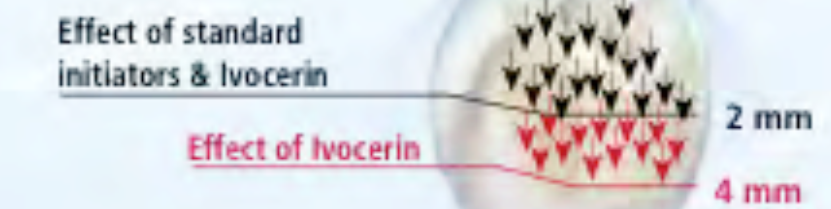
Two-layer technique



The highly reactive, patented light initiator Ivocerin is the decisive advantage of the sculptable Tetric EvoCeram Bulk Fill and the flowable Tetric EvoFlow Bulk Fill.

Ivocerin is significantly more reactive than conventional initiators and therefore allows large increments of up to 4 mm to be polymerized in just 10 seconds.^{2,3} This polymerization booster fills the gap between the traditional initiators used in today's composite materials.

Ivocerin light initiator



² Bucuta S, Ilie N. Light transmittance and micro-mechanical properties of bulk fill vs. conventional resin based composites. Clin Oral Investig 2014; 18:1991-2000

³ Alrahlah A, Silkes N, Watts D C. Post-cure depth of cure of bulk fill dental resin-composites. Dent Mater 2014; 30:149-154

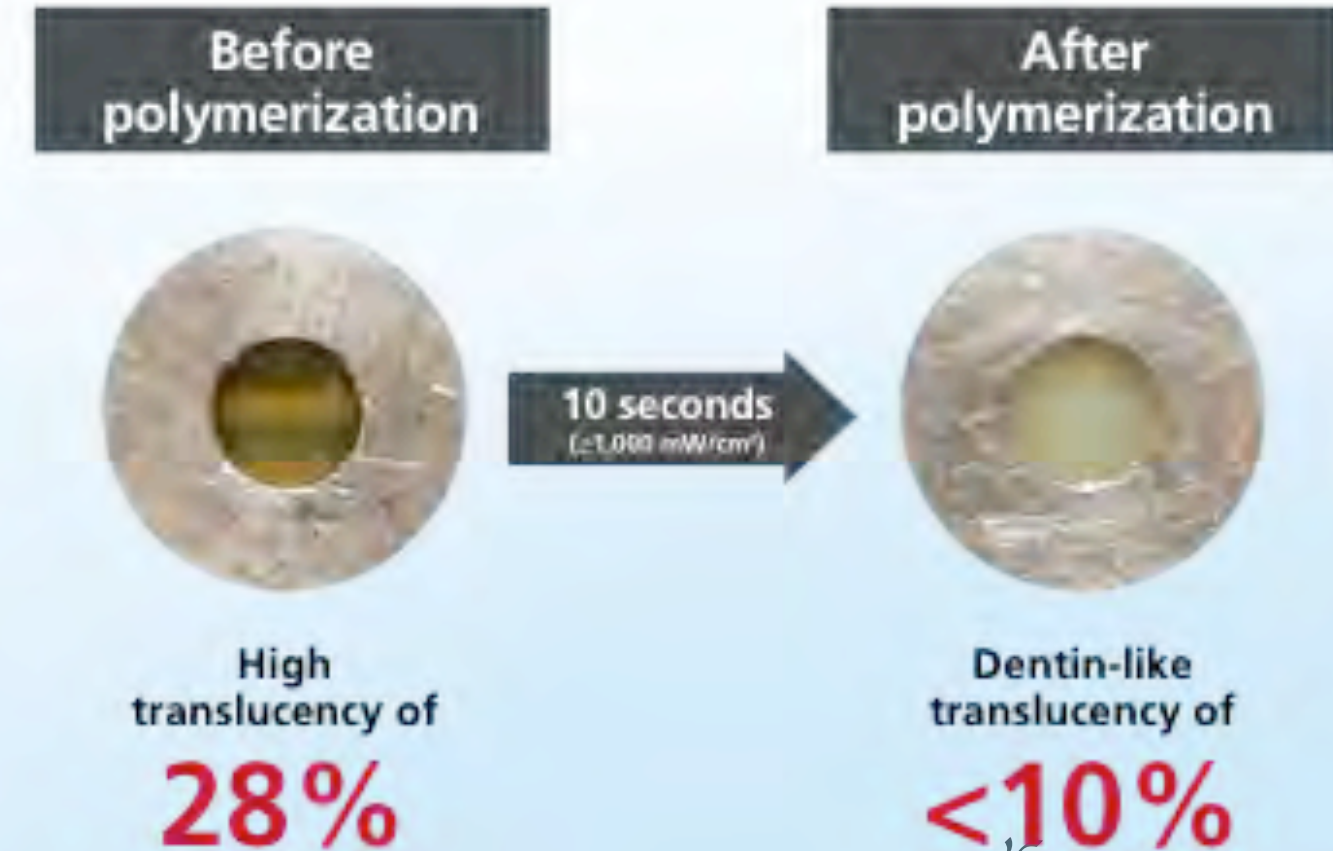
⁴ Heintze S. Sicheres Aushärten des Komposits auch bei fehlerhafter Polymerisation. DZW 2013; 44:14; also see: Research and Development Report, Ivoclar Vivadent AG, Ivocerin® – a milestone in composite technology, No. 19, 2013

Aessencio Technology

The tried-and-tested Tetric EvoCeram Bulk Fill is distinguished by its enamel-like translucency. Apart from Ivocerin, Tetric EvoFlow Bulk Fill additionally features Aessencio technology, a proprietary development by Ivoclar Vivadent which further enhances the lifelike appearance of the restorative result. It allows a dentin-like volume replacement of up to 4 mm to be light-cured in 10 seconds ($\geq 1,000 \text{ mW/cm}^2$).

Tetric EvoFlow Bulk Fill's high translucency of 28 per cent before light-curing diminishes to a dentin-like translucency of 10 per cent during the curing process. Given this attribute, dentin discolouration can be reliably masked.

The flowable Tetric EvoFlow Bulk Fill with its dentin-like translucency is the perfect complement to Tetric EvoCeram Bulk Fill, which features enamel-like translucency. Both composites come in the universal shades 1A, 1B and 1W.



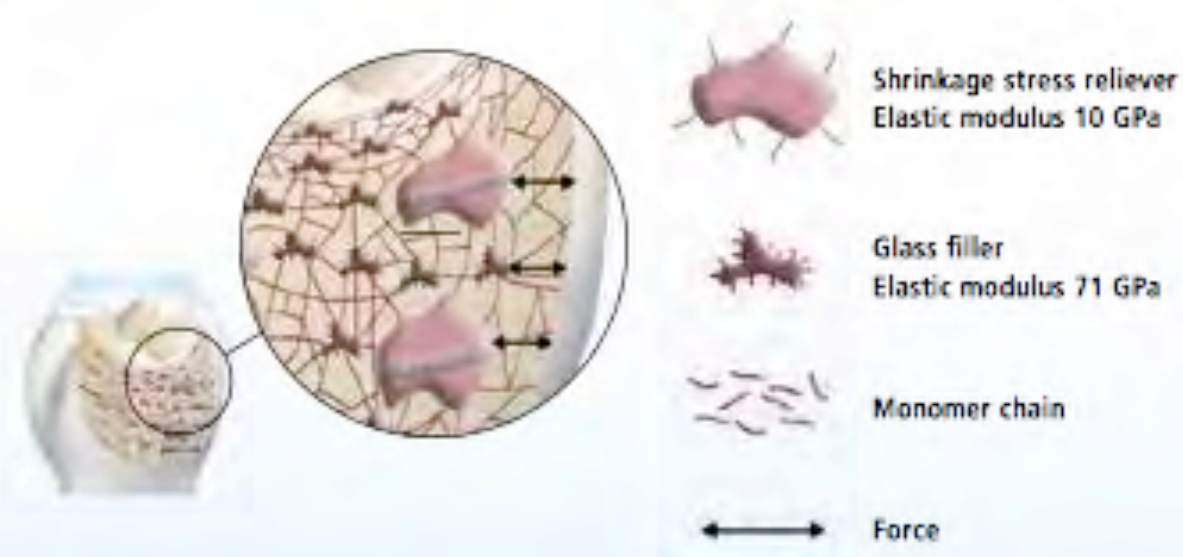
The Biting Edge™

Reduced shrinkage strain

due to the shrinkage stress reliever

Two types of shrinkage affect the quality of a restoration: volumetric shrinkage and shrinkage stress. These forces cause materials to pull away from the cavity walls during polymerization.

The filler composition of Tetric EvoCeram Bulk Fill and Tetric EvoFlow Bulk Fill includes a special, additional composite filler which relieves shrinkage strain. Due to its lower elastic modulus, this filler is flexible like a microscopic spring and thus reduces shrinkage stress. The result is optimum marginal integrity. And the shrinkage forces are comparable to those occurring in proven 2-mm composites, as are the volumetric shrinkage values.



Long working time

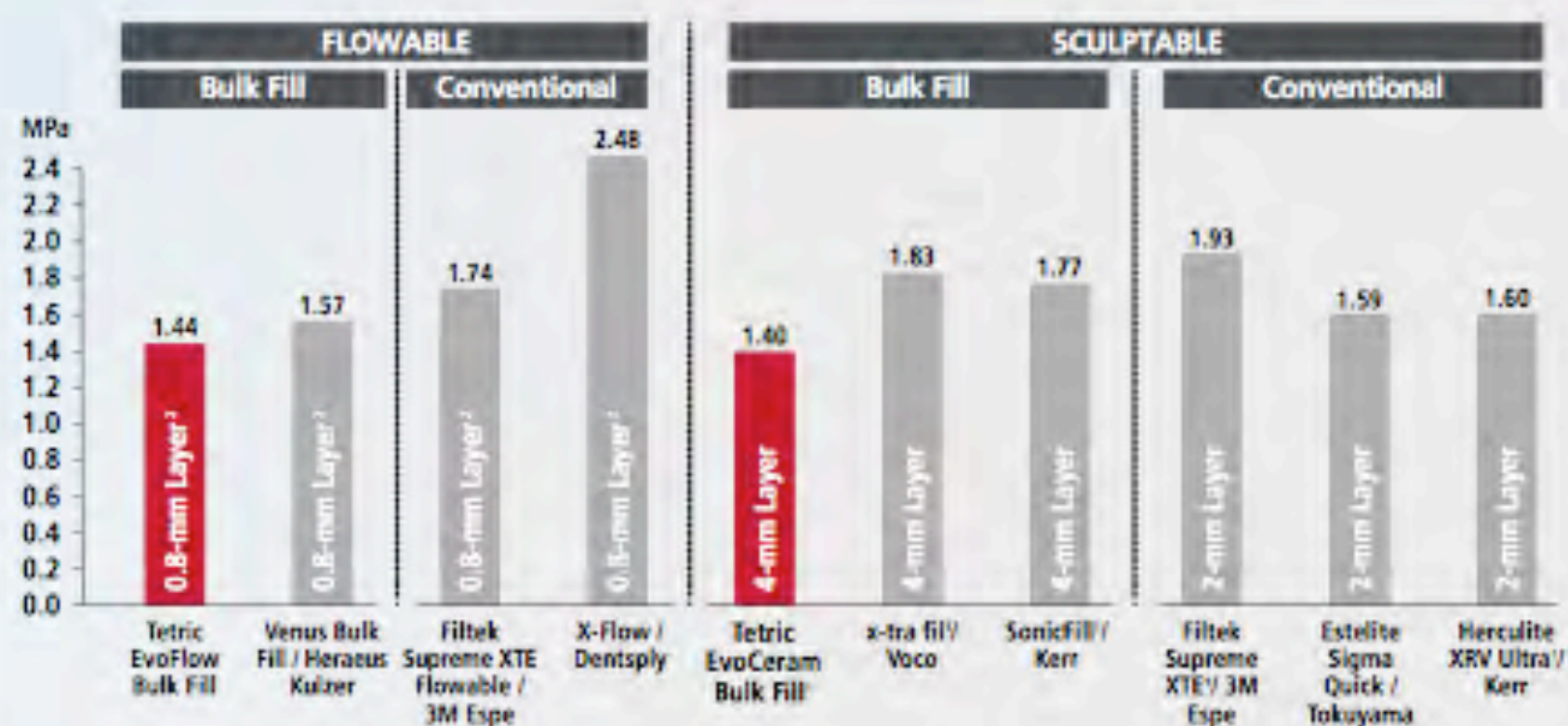
due to the light sensitivity filter

The composite contains a patented light sensitivity filter that ensures a longer working time under operatory and ambient light conditions.

This light sensitivity filter acts as a shield, delaying the effects of ambient light. However, dental curing lights are able to penetrate this shield. As a result, the composite offers the unique combination of a fast curing time with extended working time.

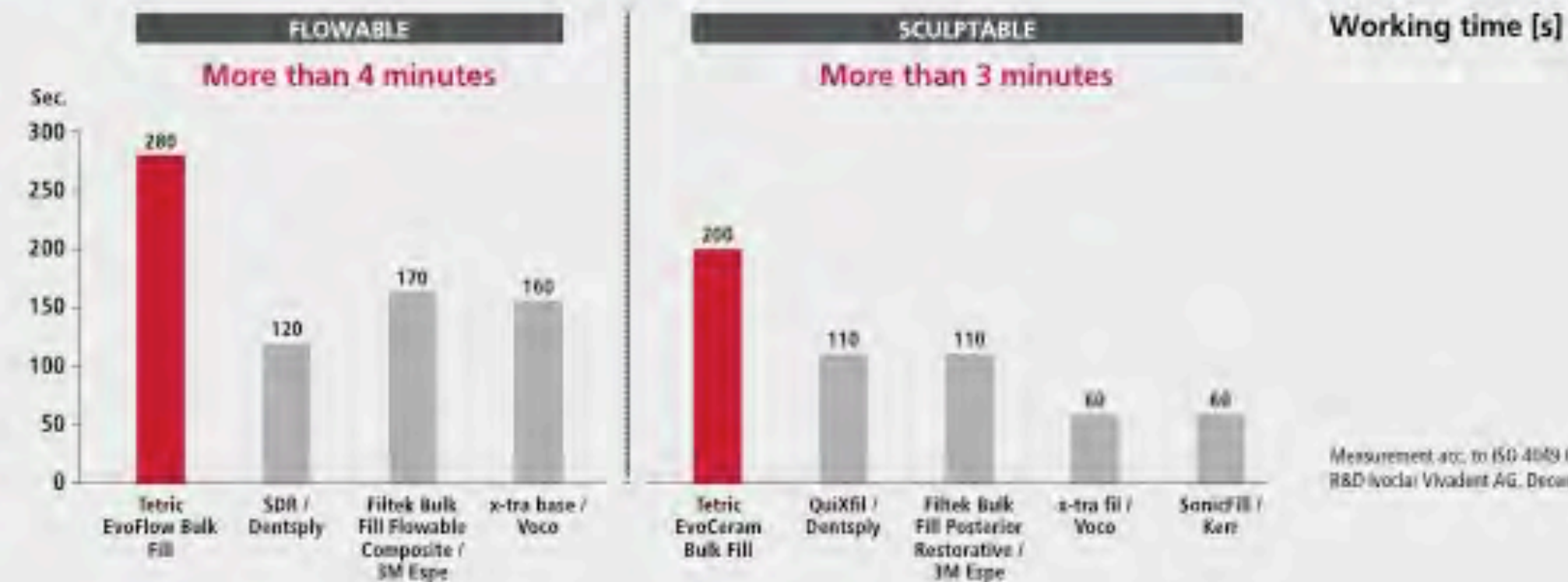
Shrinkage stress [MPa]

pulling forces acting on the cavity walls via the surface



Measurement acc. to Watts in 2-mm and 4-mm layers using a Bioman shrinkage stress measuring device. R&D Report, Ivoclar Vivadent AG / IADR 2012 Abstract 858

¹Due to the flowable consistency of flowable composites, only 0.8-mm layers can be measured.



Measurement acc. to ISO 4049 (8,000 lux), R&D Ivoclar Vivadent AG, December 2014

Tetric EvoFlow® Bulk Fill

Tetric EvoFlow Bulk Fill is a ***NEW*** productive posterior flowable composite.

- Self-adapting consistency
- Low shrinkage stress
- Radiopaque
- Cures up to 4 mm with Ivocerin®
- Opacifies upon polymerization



Tetric EvoFlow[®] Bulk Fill

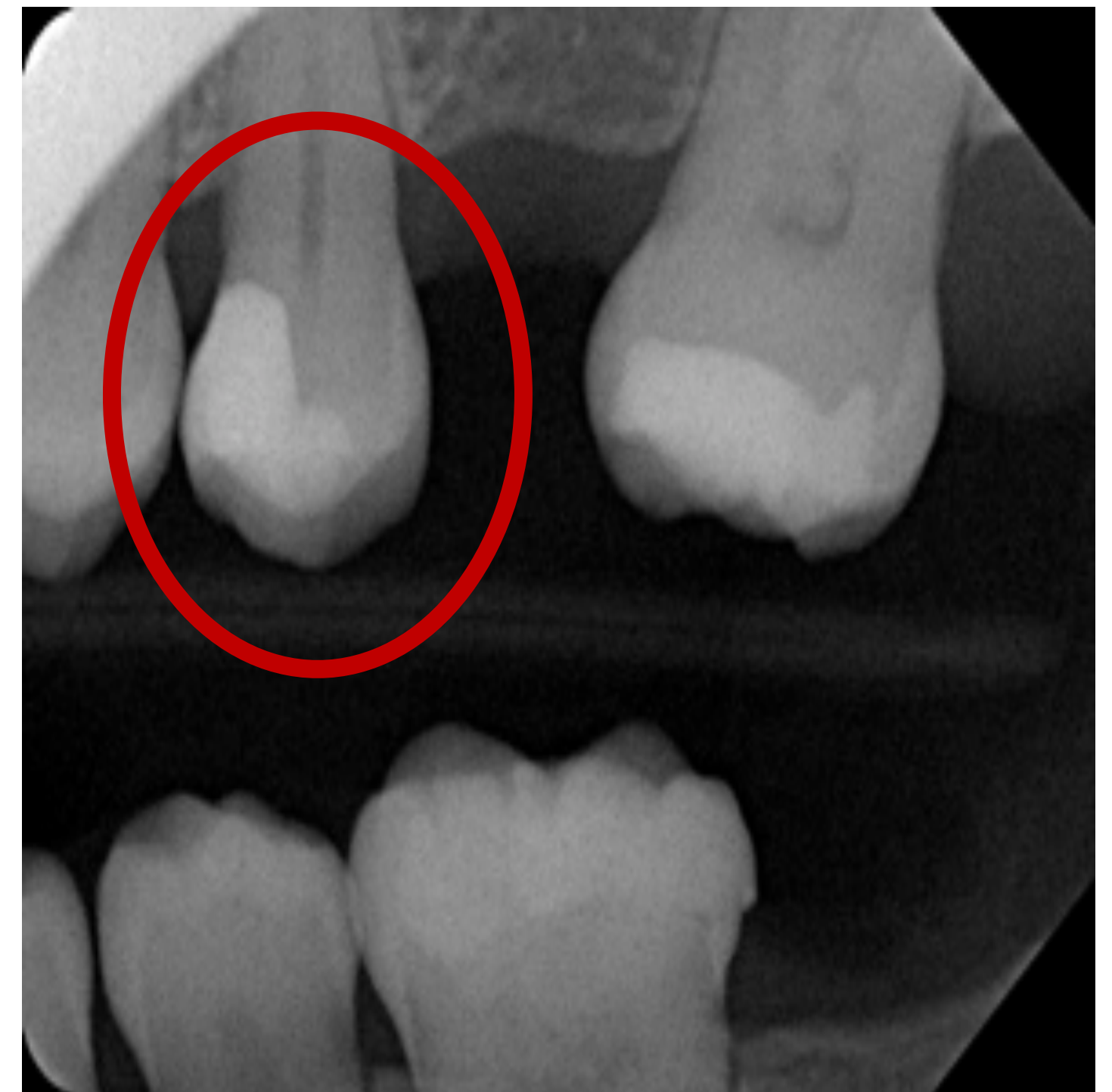
Radiopacity

Most Common Indication for Flowable Composites



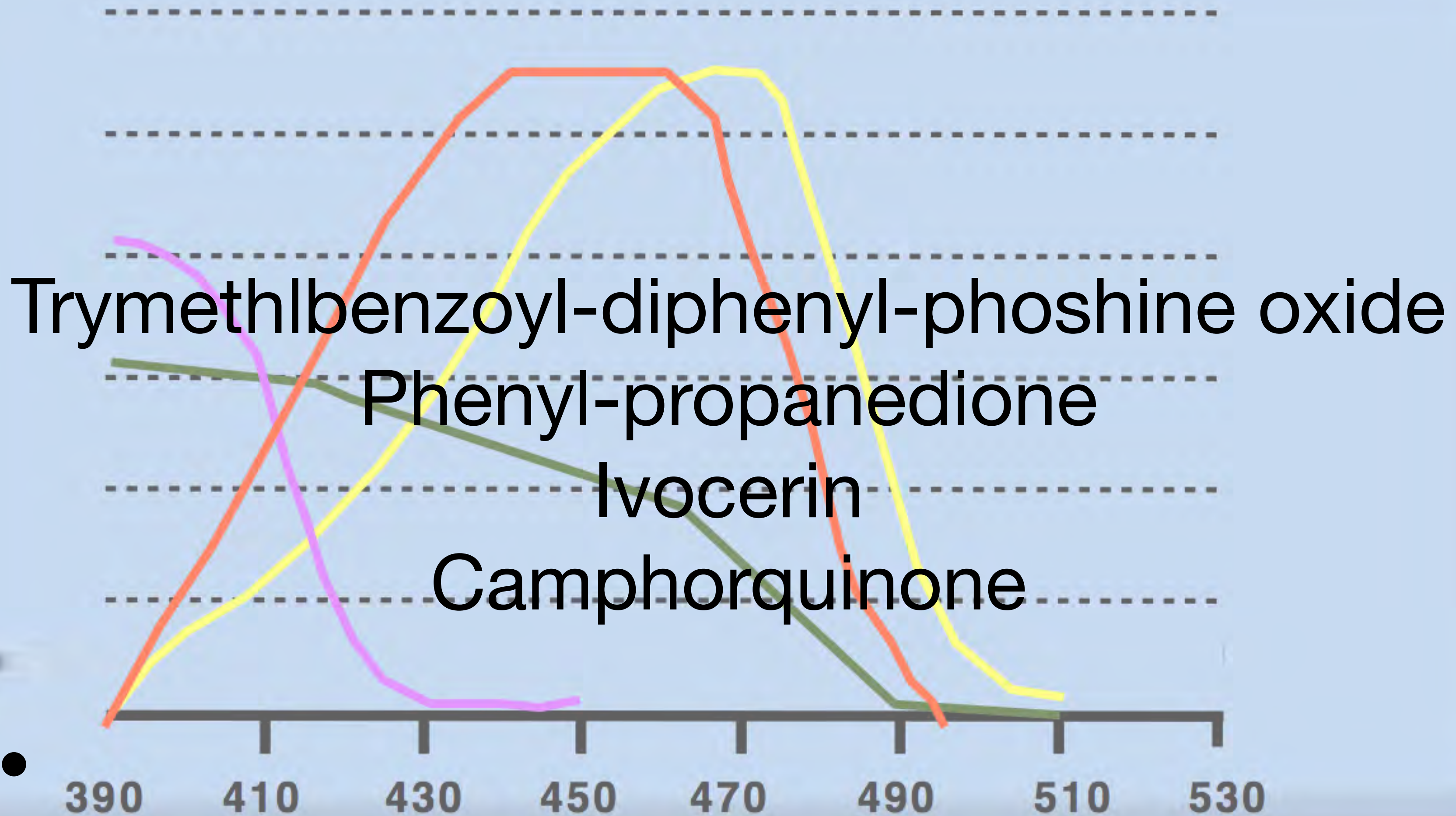
Liner or base material for posterior restorations

- Easily distinguishable on radiographs



Absorption Spectrum Photo Initiators

TPO
PPD
IVO
CoQ



Tetric EvoFlow® Bulk Fill

Simplified Shading System

- Three shades: IV A (universal “A”), IV B (universal “B”), IV W (bleach)
- Matches the shading system of **Tetric EvoCeram® Bulk Fill**



Tetric EvoFlow[®] Bulk Fill

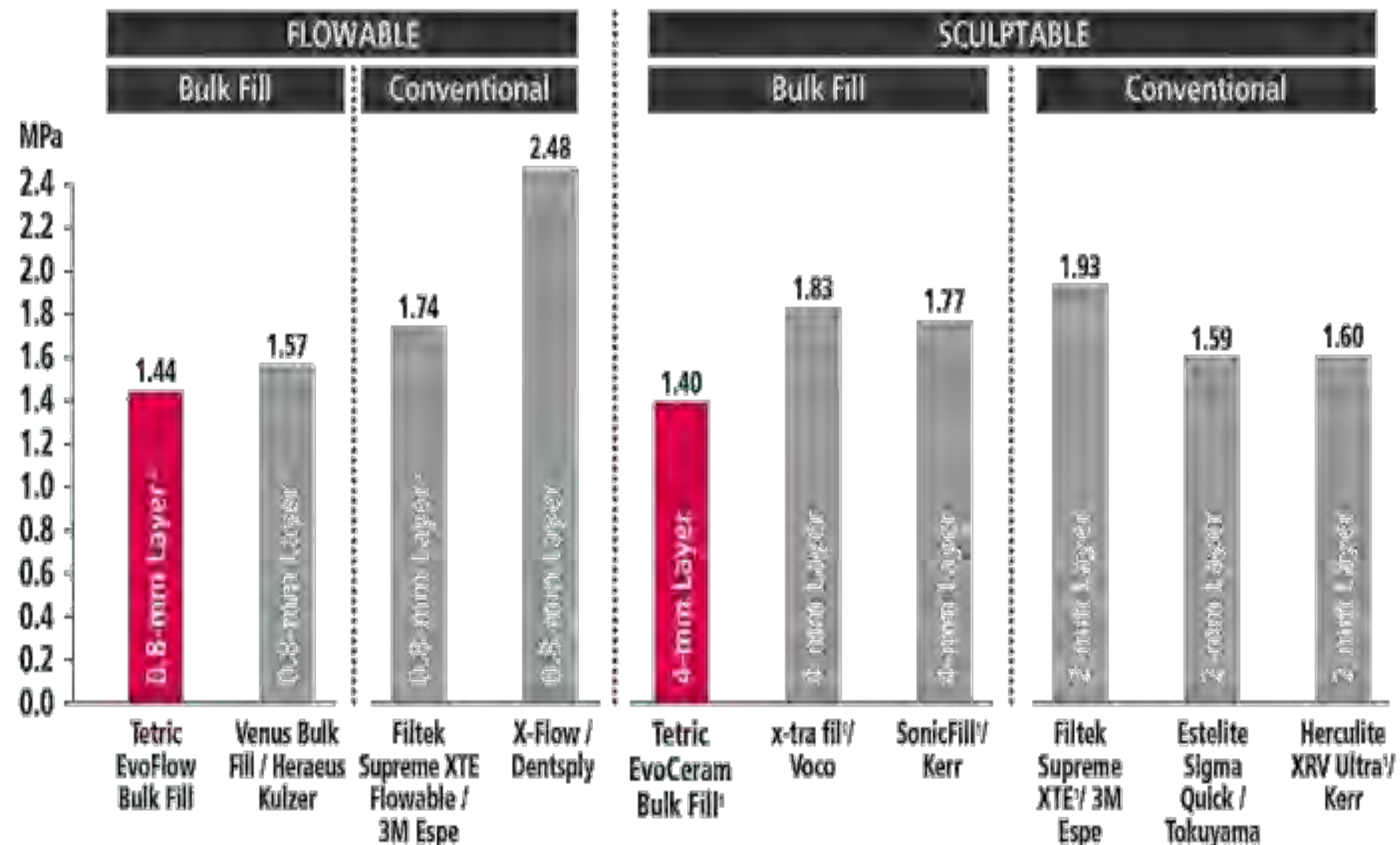
Shrinkage Stress Reliever



- Low Level of Shrinkage**

The patented shrinkage stress reliever manages shrinkage stress leading to better marginal integrity during and after polymerization.

Shrinkage stress [MPa]
pulling forces acting on the cavity walls via the surface



Measurement acc. to Watts in 2-mm and 4-mm layers using a Bioman shrinkage stress measuring device, R&D Report, Ivoclar Vivadent AG /
¹ AADR 2012 Abstract 858
² Due to the flowable consistency of flowable composites, only 0.8-mm layers can be measured.



What's Not New?



Initial liner under regular-viscosity Class I - Class V composite restorations
e.g. Tetric EvoCeram/Tetric EvoCeram Bulk Fill restorations



All kinds of small restorations (Class III and V)



Extended fissure sealing



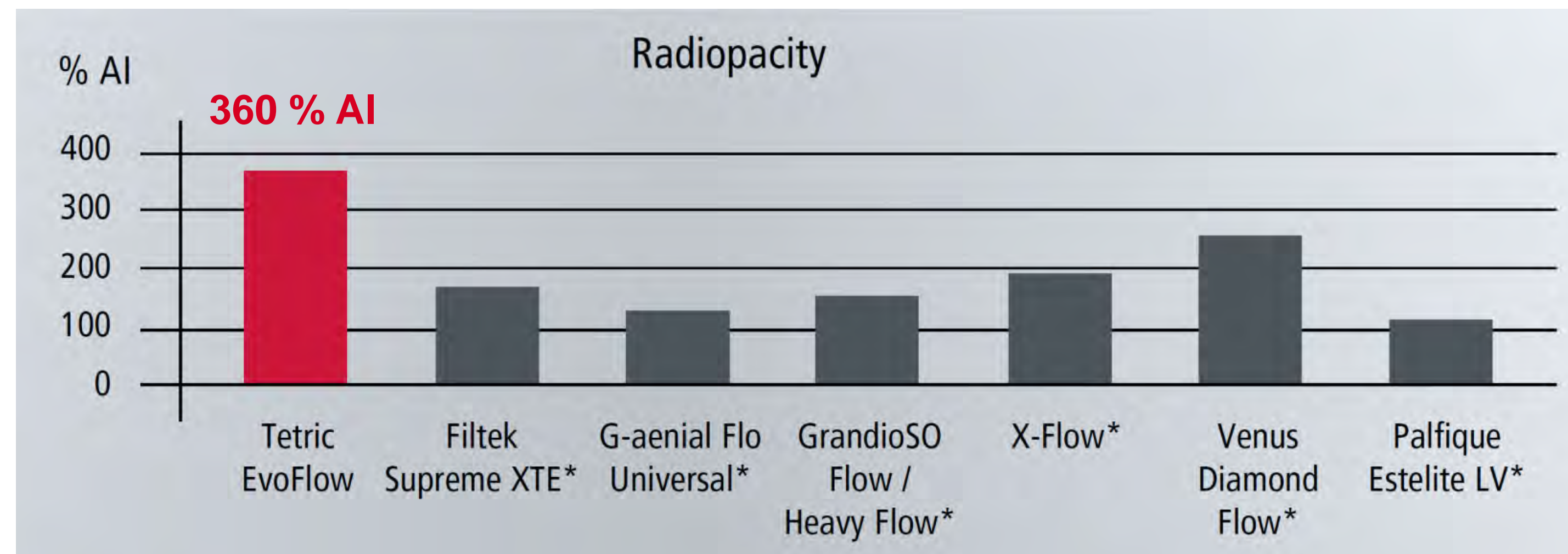
Splinting of mobile teeth

Tetric EvoFlow is indicated for ALL flowable indications?



What's Not New?

- Exceptionally good radiopacity ...
- ... to properly distinguish between dental tissue and restorative material in the diagnosis of secondary caries.



F&E Ivoclar Vivadent AG, Schaan, 2012 (measured acc. to ISO 4049).

* These trademarks are not registered trademarks of Ivoclar Vivadent AG.



IPS Empress Direct

IPS Empress Direct – the highly esthetic filling material for the anterior and posterior region – available in 32 shades.

The material for highly esthetic fillings

Natural-looking restorations are effortlessly created with the different levels of translucency offered by IPS Empress Direct. The shade system logically follows the anatomical build-up of the tooth:

- 13 opaque dentin materials are available for producing dentin and mamelon areas and placing cervical fillings in older patients
- 16 translucent enamel shades are designed for replacing dental enamel
- 3 highly translucent materials add individual characteristics to incisal edges

Esthetic Control

The Biting Edge

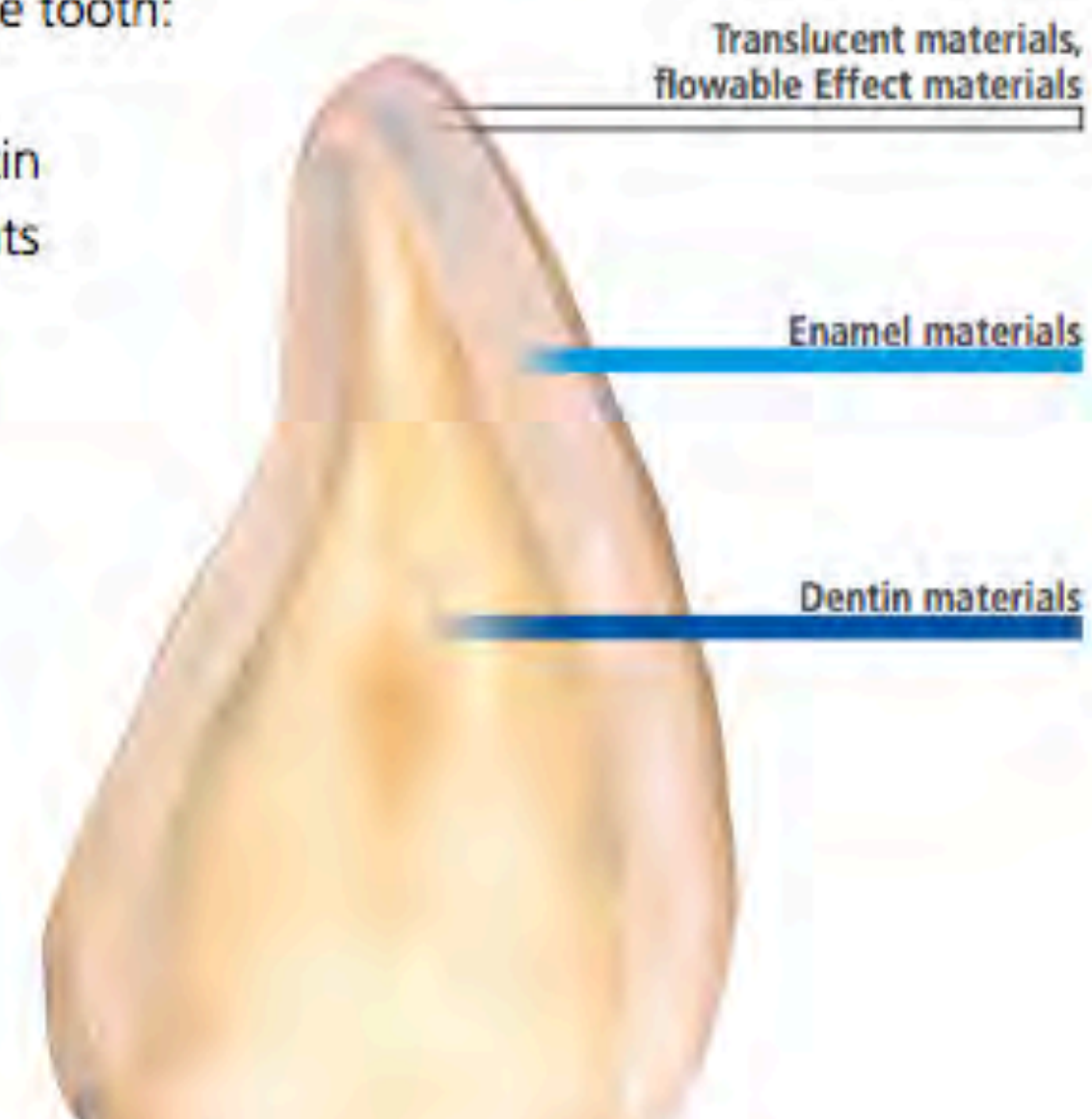
highly esthetic fillings

Easy to master – effortlessly reproduced

IPS Empress® Direct – the highly esthetic anterior and posterior filling material – is available in 32 shades. Different types of anatomical features are effortlessly and faithfully recreated with this composite resin.

The shade system logically follows the anatomical build-up of the tooth:

- 13 opaque dentin materials are available for reproducing dentin and mamelon areas and placing cervical fillings in older patients
- 16 translucent enamel shades are designed for replacing dental enamel
- 3 highly translucent materials add individual characteristics to incisal edges

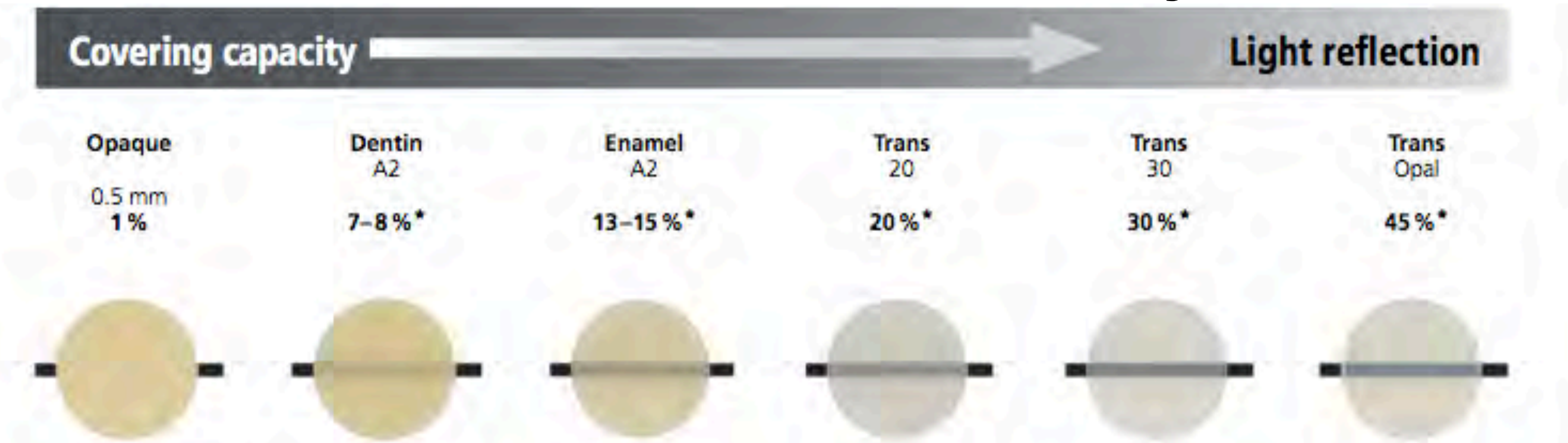


Life like layering capability

Unique Filler Formulas for Dentin & Enamel Materials

Filler		Benefit	Dentin	Enamel
Ba Al silicate glass filler	400nm	polishability, high gloss, low wear		✓
Ba Al silicate glass filler	700nm	high-strength, less sticky, adaptable	✓	
Prepolymers	4-5 μm	lower shrinkage, less sticky	✓	
Ytterbium trifluoride	100nm	radiopacity	✓	
SiO ₂ /ZrO ₂ mixed oxide	150nm	sustained gloss	✓	✓
Nano-modifier & nano-pigments		stability of form, chameleon effect	✓	✓

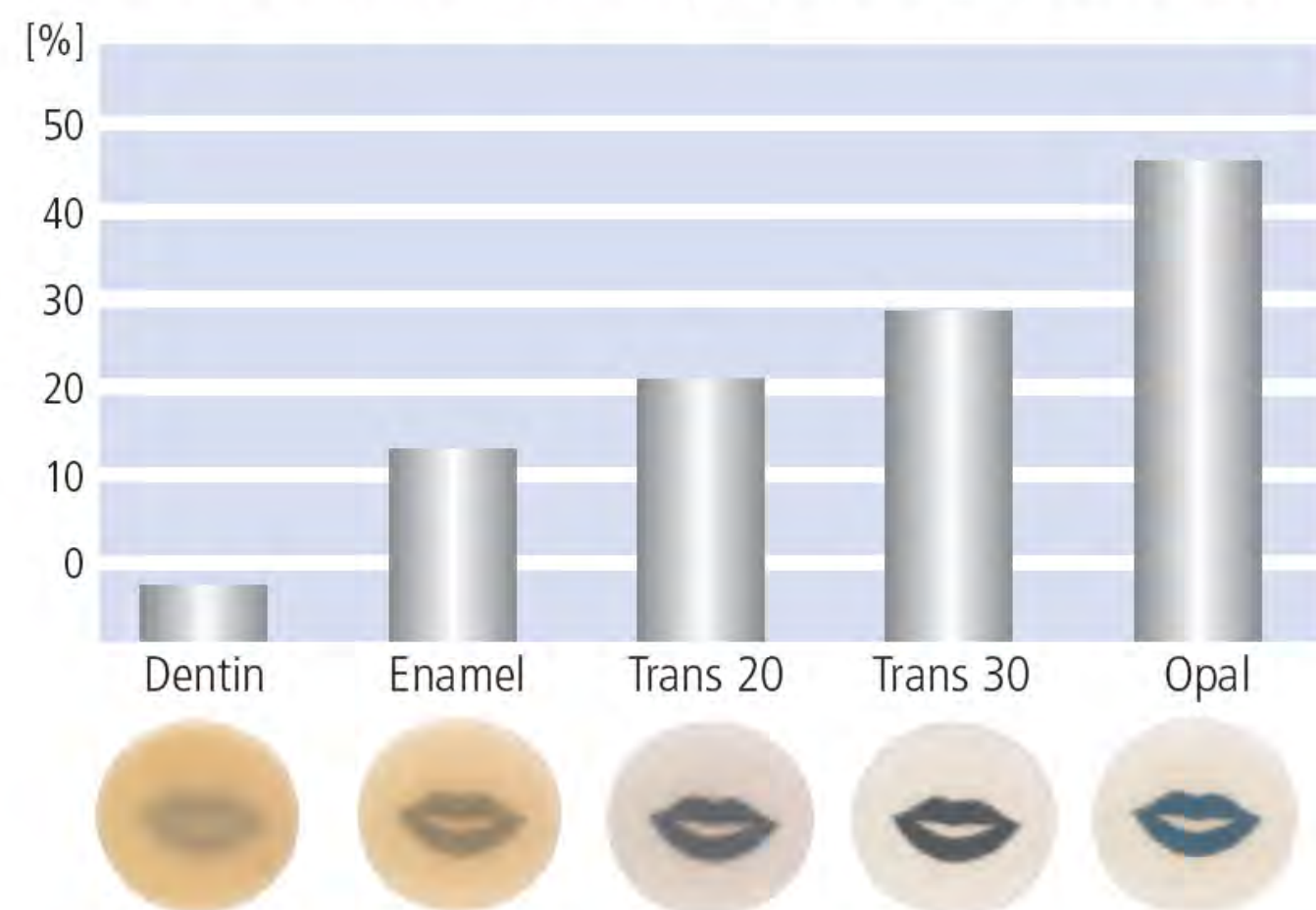
6 Levels of Translucency



The translucency of the IPS Empress Direct *Enamel* shade has been adjusted to provide a natural depth to the restoration and to diffuse the underlying dentin layers.

Further gradation in translucency is achieved with the Translucent shades.

Die 5 Transluzenzabstufungen von IPS Empress Direct



Translucent Shades

Shade group **Translucency**

Opaque	1%
Dentin	7 – 8 %
Enamel	13 – 15 %
Trans 20	20 %
Trans 30 (clear)	30 %
Opalescent	45 %



**Adhese® Universal
VivaPen®**

Adhesive

- 190 single tooth
applications

0 1/2 1/1

Etch

20 s AIR 10 s

*Fast and convenient direct
intra-oral application*

Virtually NO WASTE!

The Biting Edge

Universal Application

Compatible with direct and indirect bonding procedures

Adhese Universal balances hydrophilic and hydrophobic properties into one formulation making it universally compatible for direct and indirect bonding procedures. Its low film thickness (~10 microns) will help ensure accurate seating of indirect restorations.



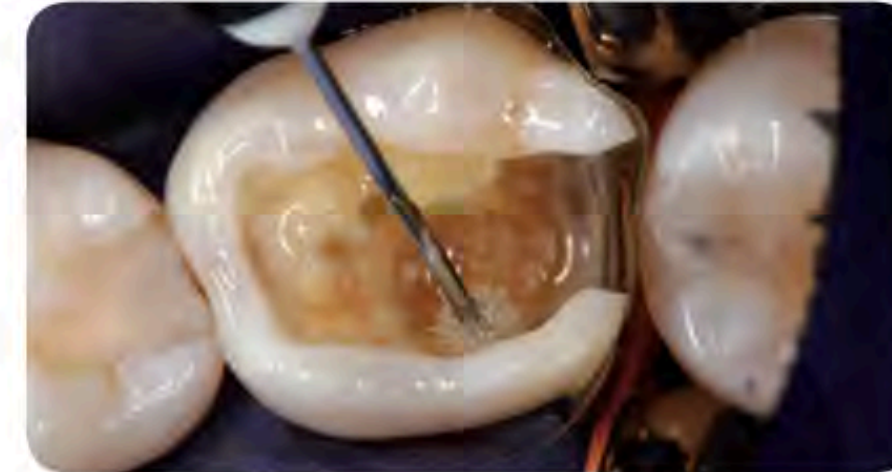
Direct Restorations



Indirect Restorations

Compatible with all etching techniques

Adhese Universal is well-suited for any etching protocol to ensure optimum results in all situations.



Self-Etch

Minimum treatment time with low risk of post-operative sensitivity.



Selective-Enamel-Etch

Enhances adhesion to enamel.



Total-Etch (Etch & Rinse)

Maximizes adhesion to both enamel and dentin.

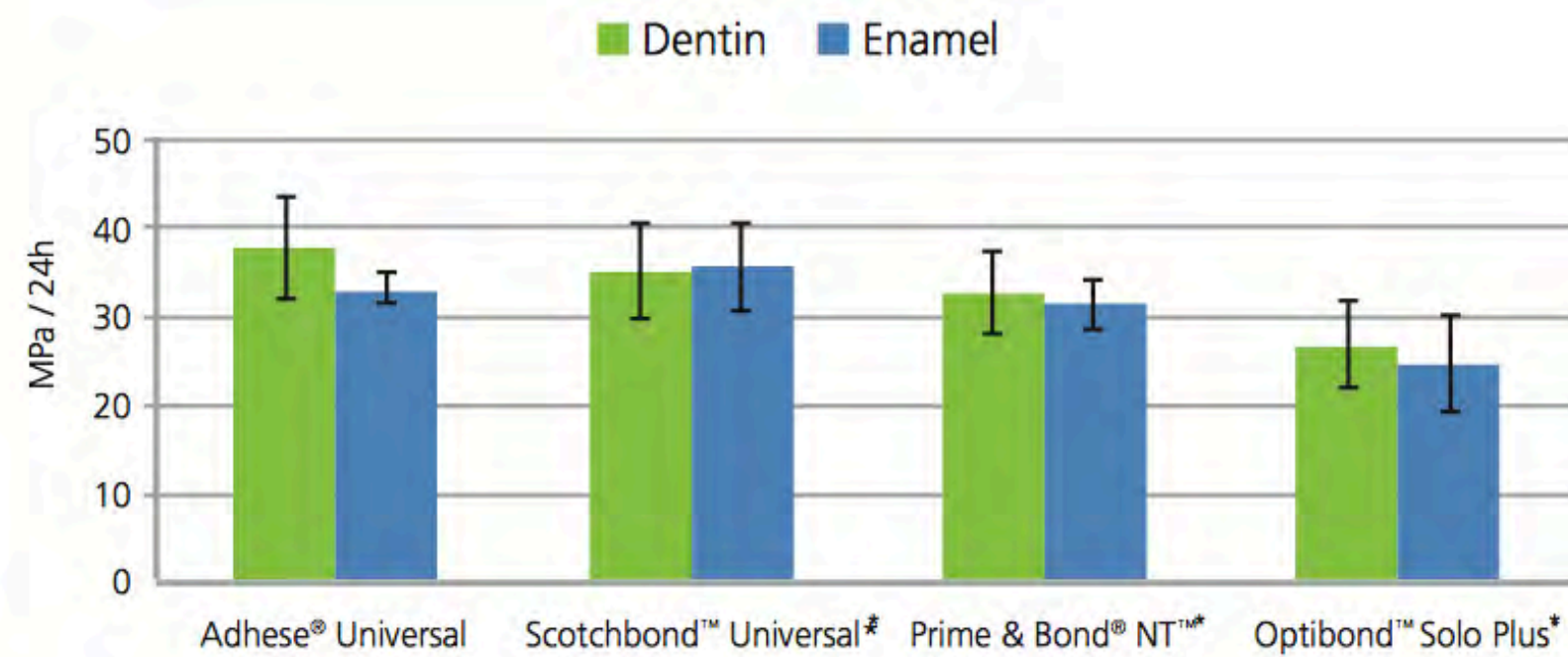
Dr. A. Peschke Ivoclar Vivadent AG

Predictable Results

Consistent High Shear Bond Strength

Adhese Universal provides durable and robust bond strength to enamel and dentin using only a single layer with any etching protocol.

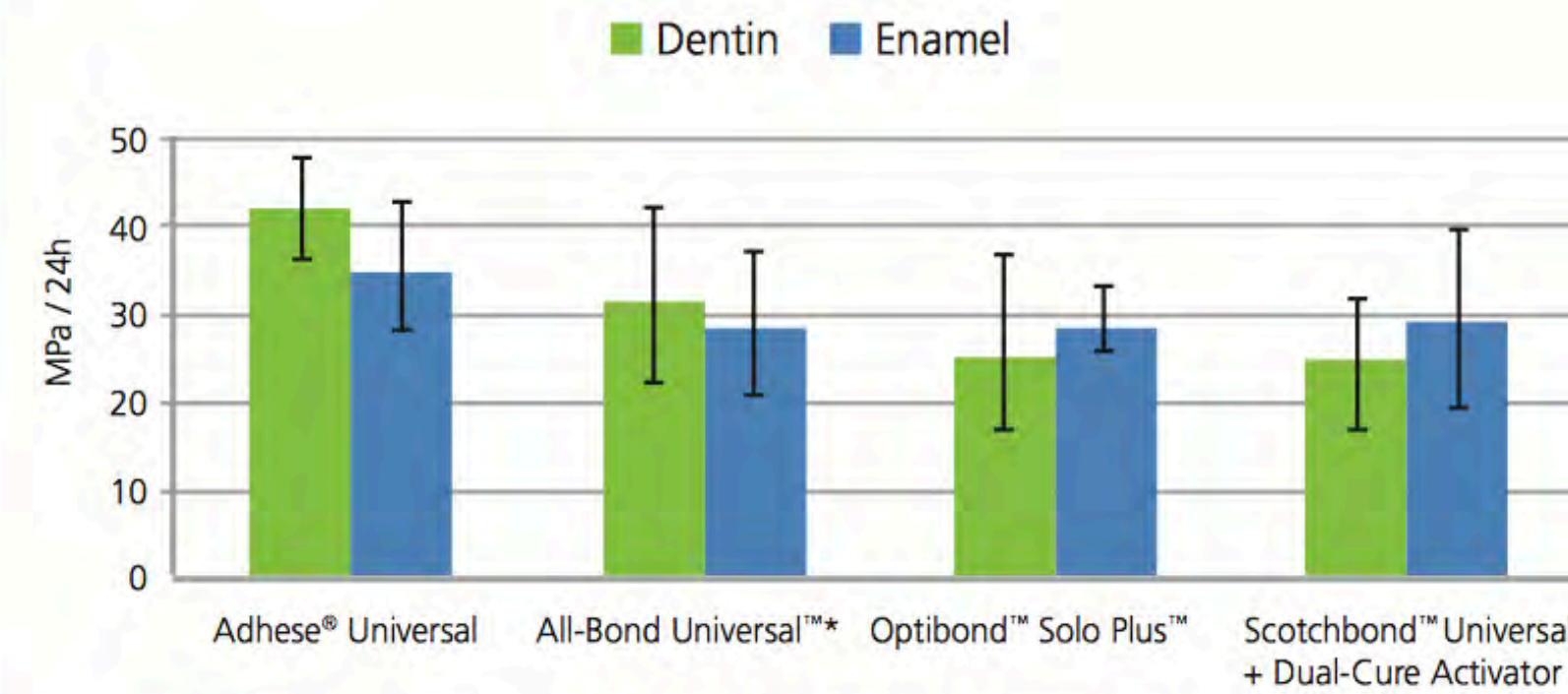
Direct Bonding



*Not a registered trademark of Ivoclar Vivadent, Inc.

Shear bond strength on dentin and enamel with Tetric EvoCeram® Bulk Fill (Total-Etch).
R&D Ivoclar Vivadent, Schaan, Liechtenstein

Indirect Bonding

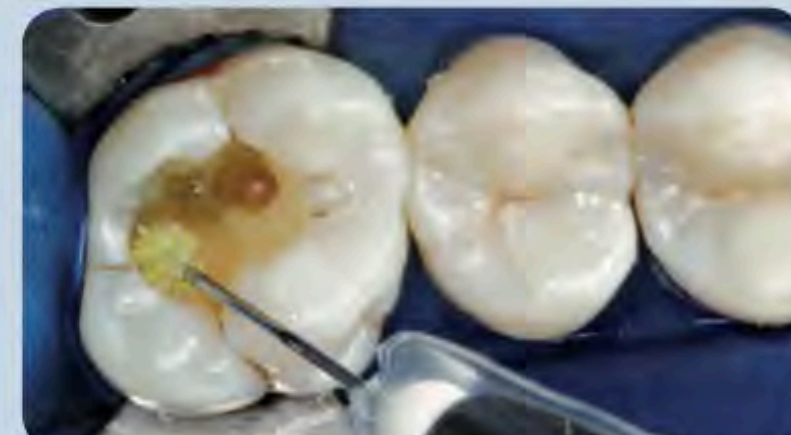


*Not a registered trademark of Ivoclar Vivadent, Inc.

Shear bond strength on dentin and enamel with Variolink® II after dual-curing (Total-Etch).
R&D Ivoclar Vivadent, Schaan, Liechtenstein



Click 2 to 3 times for the adhesive to saturate the applicator brush



Apply one coat of Adhese Universal to moist prep and agitate for 20s



Disperse with air until glossy, immobile film layer results



Light cure for 10s

Dr. S. Huth, R&D Ivoclar Vivadent AG

OptraSculpt

Efficient contouring of composites

Non-stick
for faster, more precise
contouring



OptraGate®

The latex-free lip and cheek retractor



The gentle solution
for a better view



OptraGate®

The latex-free lip and cheek retractor

OptraGate® retracts the lips and cheeks evenly and gently. Therefore, the need for using a dental mirror to assist in retracting soft tissue is eliminated. The focus can be placed on the actual work at hand. This heightens the efficiency and enhances the quality of the treatment.

Easy access to the cavity:

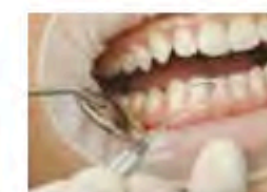
- Even retraction of the lips and cheeks
- Easily accessible, manageable treatment field

Stress-free treatment:

- Easy placement
- Relieves the dental team and the dental practitioner



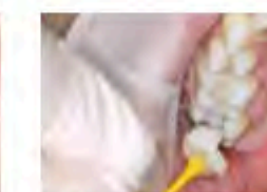
Wide range of indications



Diagnostics



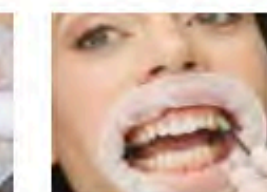
Intraoral scans



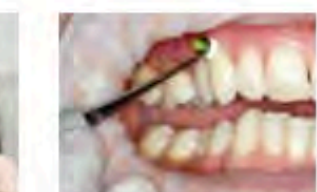
Prosthetics



Tooth whitening



Professional care



Restorative treatment

The Biting Edge

Material Selection

- Location
- Size and Depth
- Isolation and Access
- Cosmetic Concern
 - Shades, Internal Stain, External Stain
 - Dentin and Enamel Consistency
 - Chroma (Saturation), Value (Lightness), Hue (Color)
 - Translucency, Opalescence and Illumination

Location Molar-Premolars

Preparation Size and Depth

<i>Small</i>	<i>Medium</i>	<i>Large</i>
Tetric EvoFlow	Tetric EvoFlow + Empress Dentin+ Empress Enamel	Tetric EvoFlow + Empress Dentin+ Empress Enamel
Tetric EvoFlow + Empress Enamel	Tetric EvoFlow + Tetric EvoCeram	Tetric EvoFlow Bulk + Tetric EvoCeram (layered)
Tetric EvoFlow + Tetric EvoCeram	Tetric EvoFlow Bulk + Tetric EvoCeram Bulk	Tetric EvoFlow Bulk + Tetric EvoCeram Bulk

**Color Modifiers can be
layered under or over all
products for enhanced
esthetics**

**Empress enamel can
be layered over
EvoCeram and Bulk for
enhanced esthetics**

Anterior Selection

Esthetic Concerns
Chroma and Transparency

Tetric EvoCeram

Empress Direct

Higher Chroma

Higher Esthetic Demand

Low Transparency

Multiple Range of Chroma

More Mono Opaque

Control of Opacity

Minimal Color Gradient Change

Multiple Degrees of Transparency

Less Technique Sensitive

Total Control with Multiple Layering

More Technique Sensitive

**Addition of Color Modifiers
Layered and/or Surface**

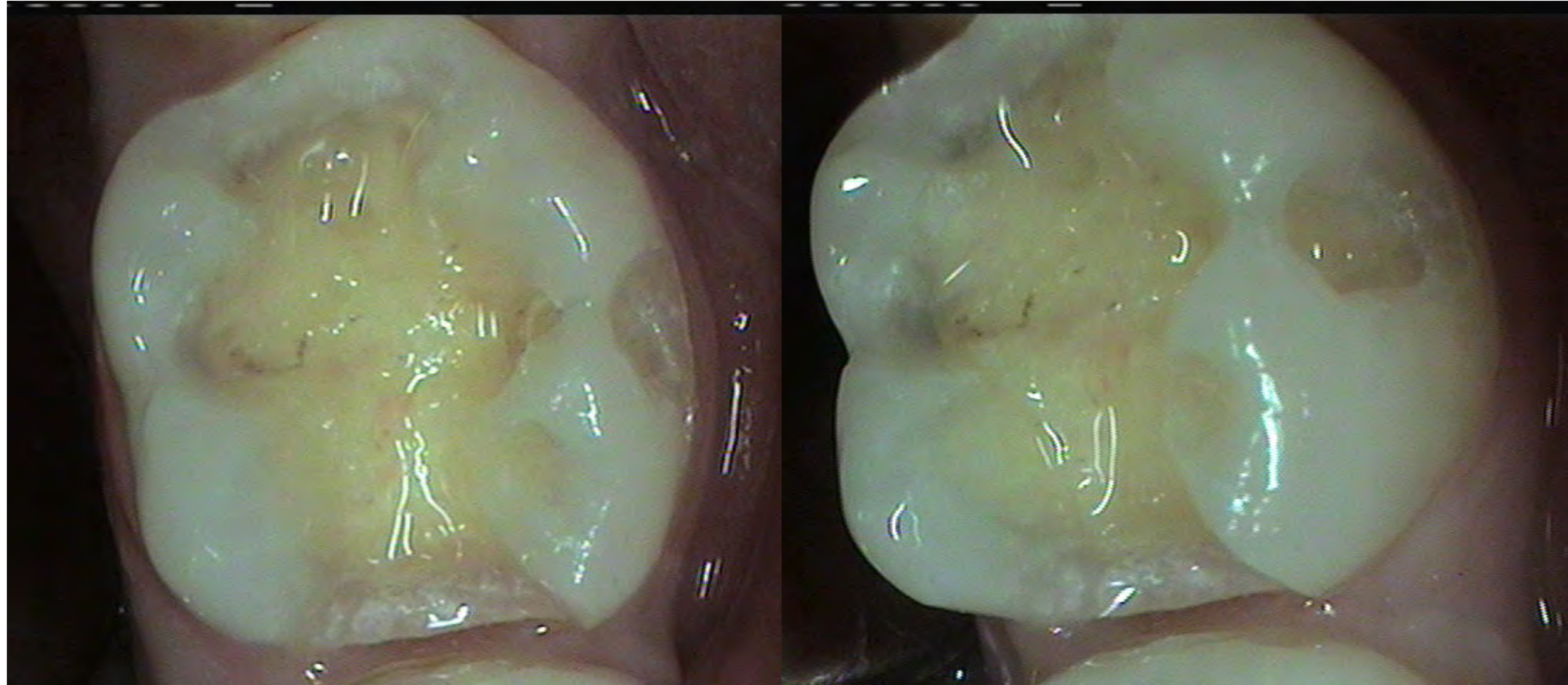


e Biting Edge





Prep and Clean Out Polish and Finish Margins



Material Selection

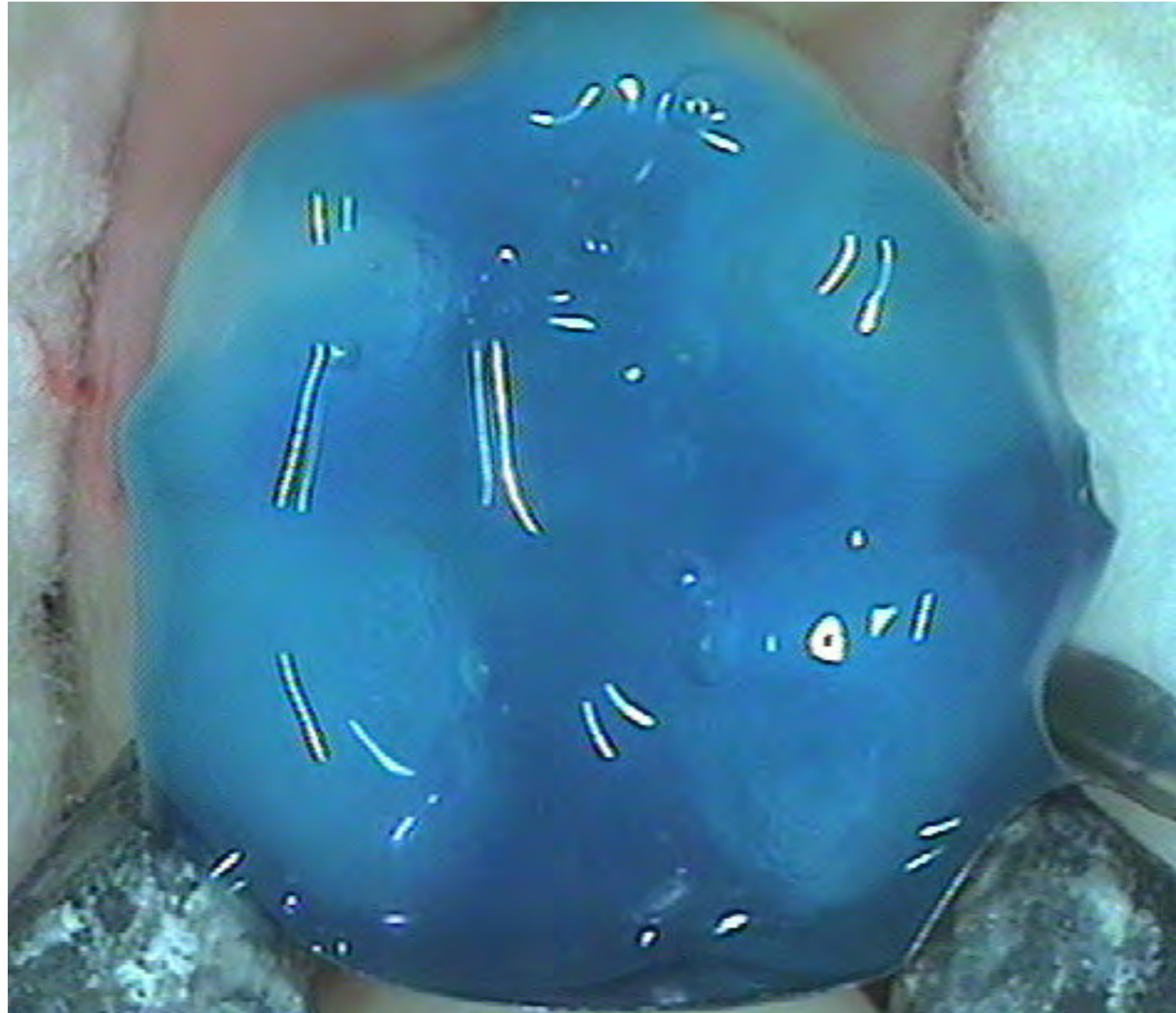


Total Etch

- **30-40% Phosphoric Acid**
- **25 Sec on Enamel**
- **15 Sec on Dentin**



Total Etch, Enamel First and Fill In Dentin



Adhese Bond Scrub, Air Dry, Cure



Flow Layer and Contact Creation



Base Layer A2 Enamel Build To The Occlusal Floor



A2 & Trans To Build Ridges & Inclines



Anatomy Build & Final Cure





Adjust & Check Occlusion



Final Polish





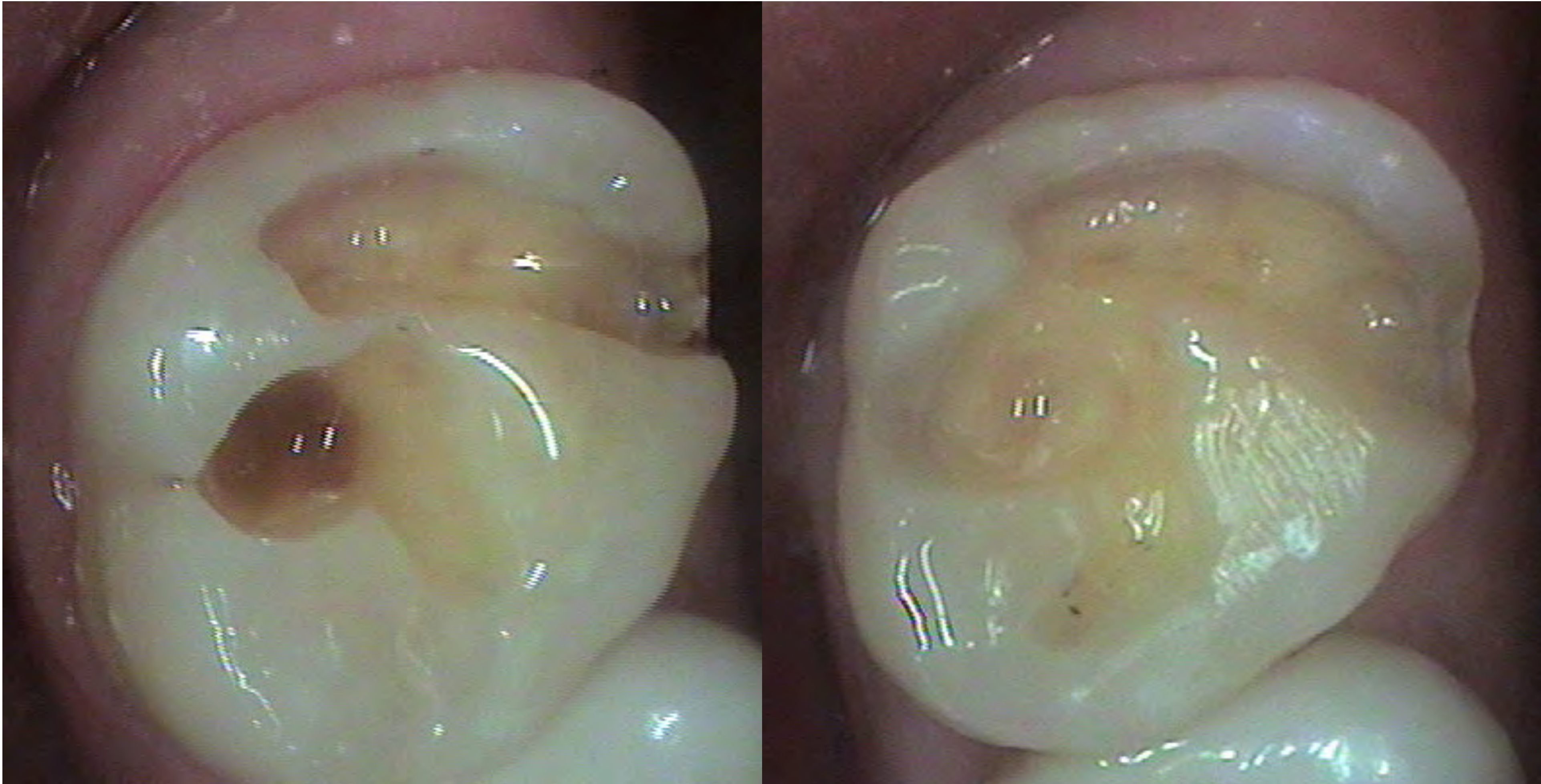


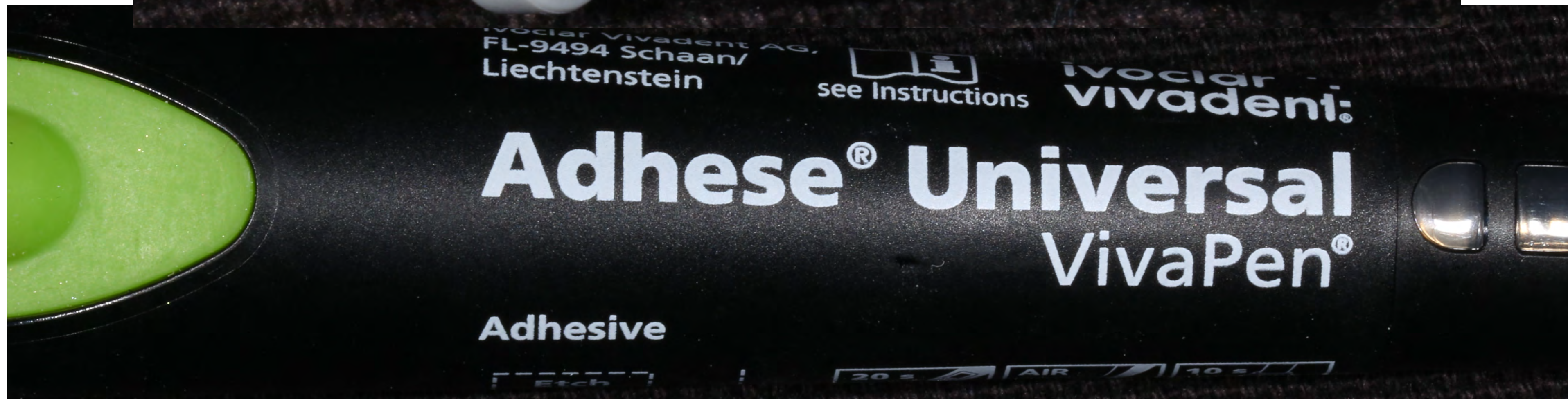


Pre-Op

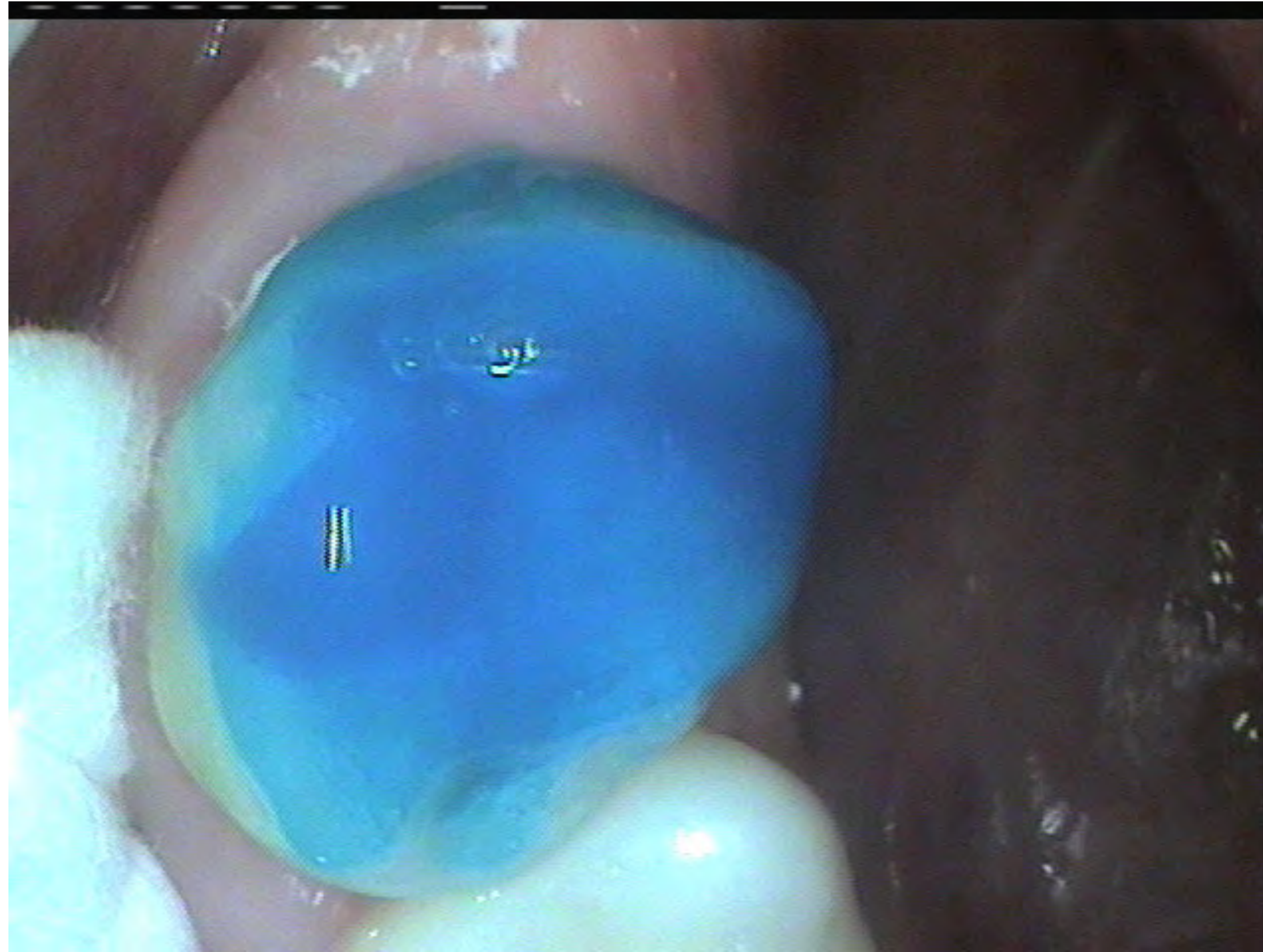


Prep, Caries Clean Out





Total Etch, Enamel First & Fill In Dentin



Adhese Bond Scrub, Air Dry, Cure



Flow Layer



Layered Build Up Bulk Floor First Than Ridges & Inclines

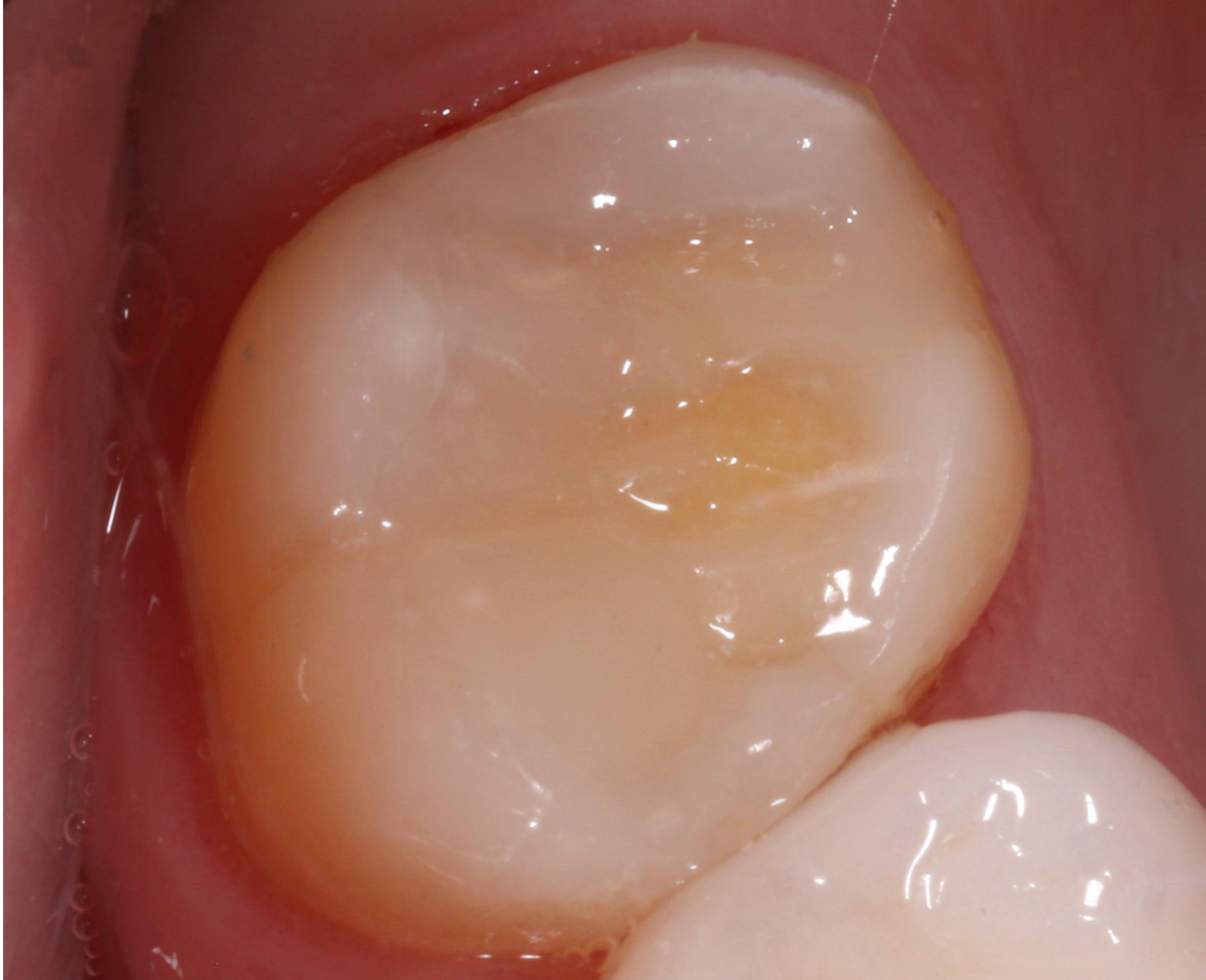


Full Contour Before Polish



Adjust occlusion and polish





Anterior Direct Composites

Ivoclar Empress Direct
Multi layer technique



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AMD Lite Touch





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Total Etch

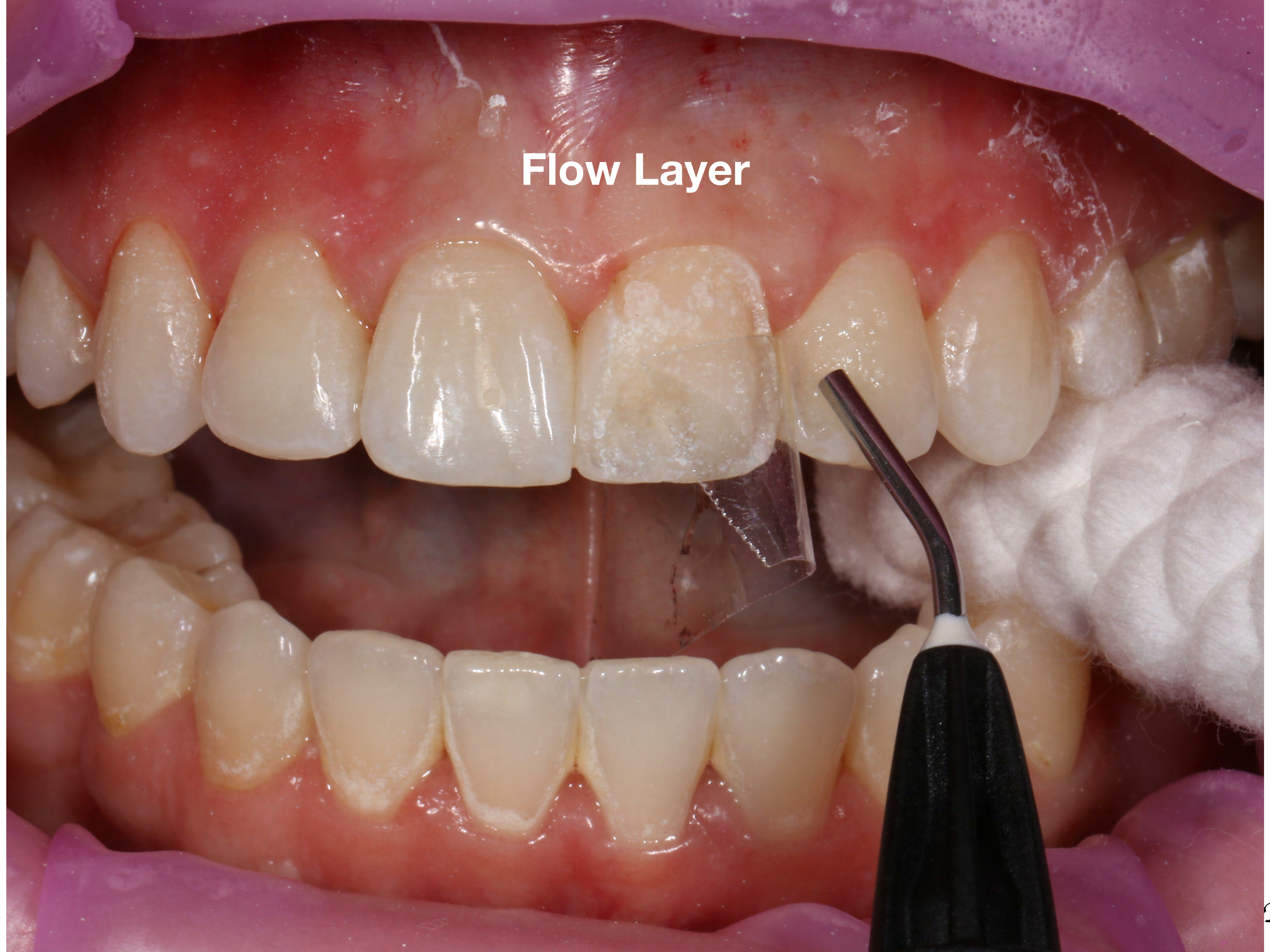


Adhese Bond





Flow Layer





Optra Sculpt

Dentin layer



Color Modifiers





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Optra sculpt
Enamel layer







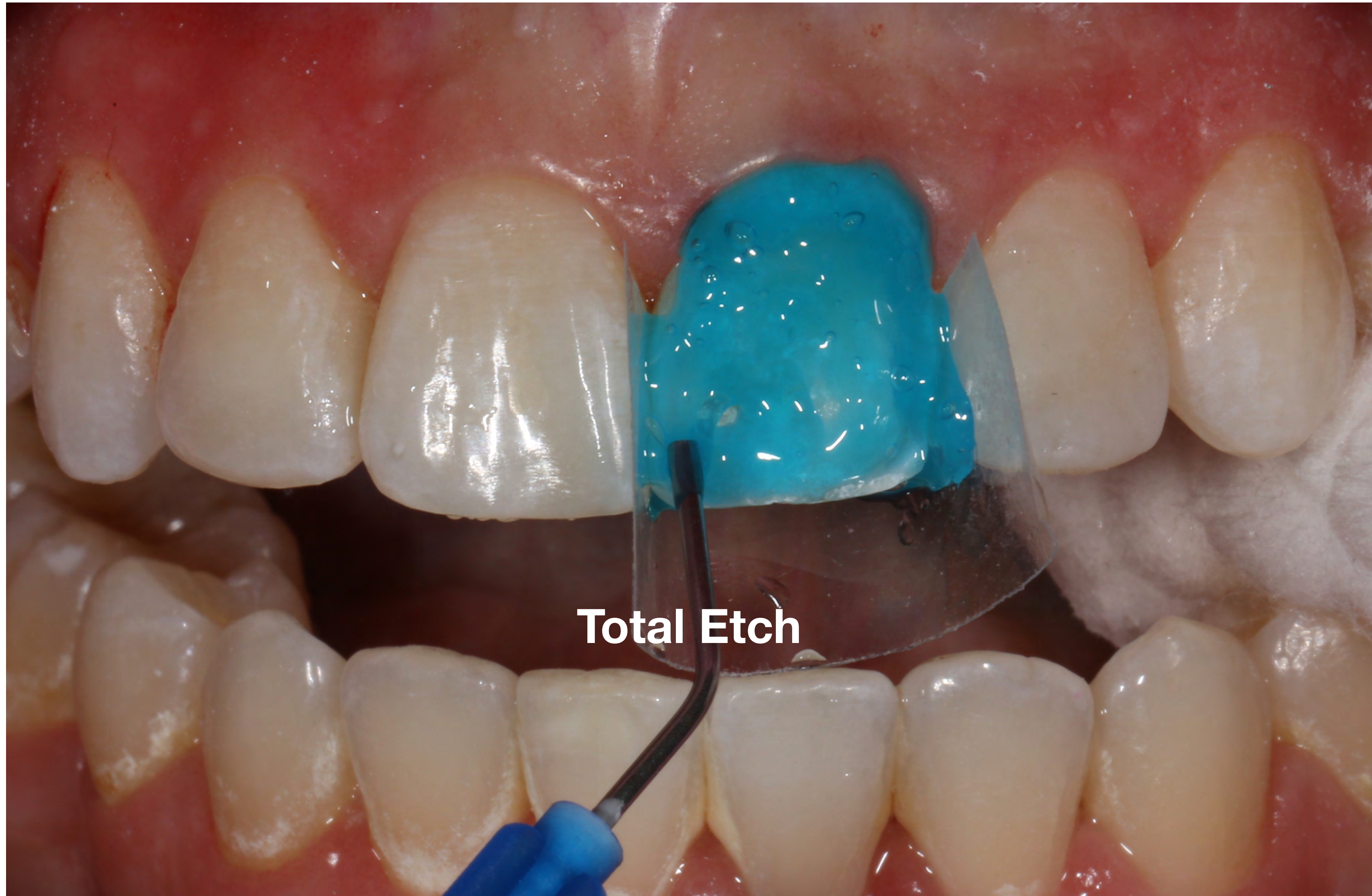
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The Biting Edge™





Total Etch

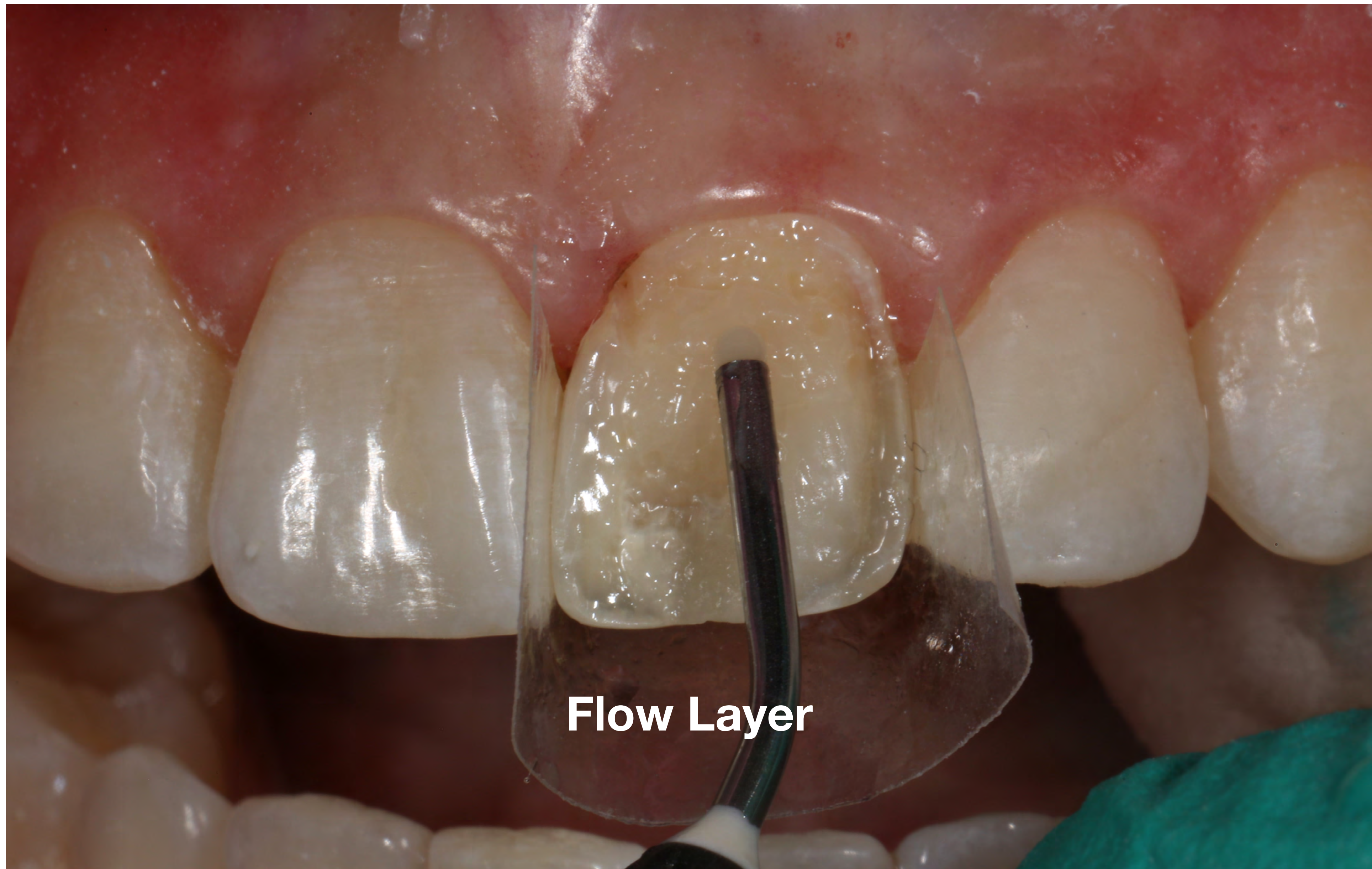


Adhese Bond



Air Thin







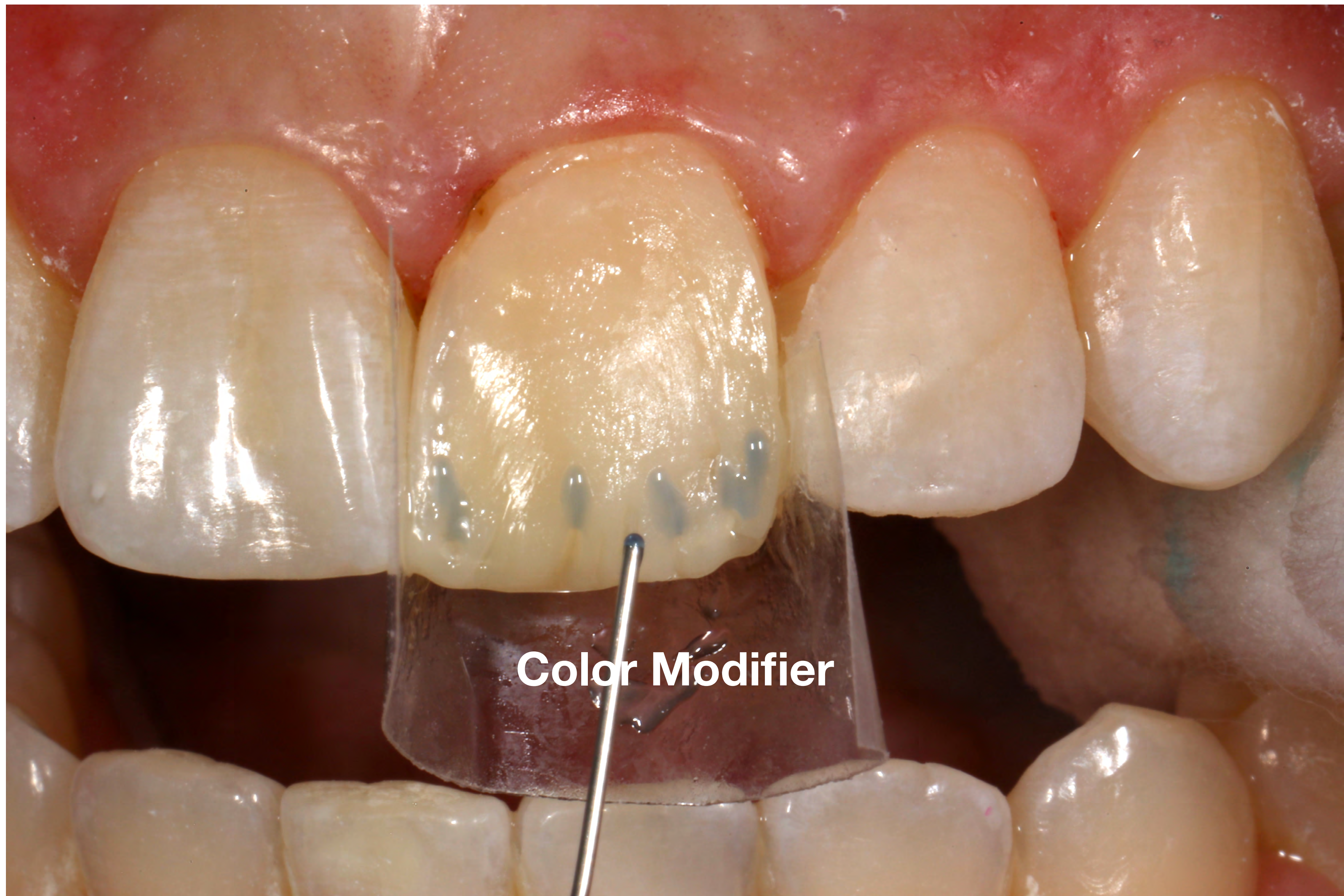


Optra Sculpt Dentin





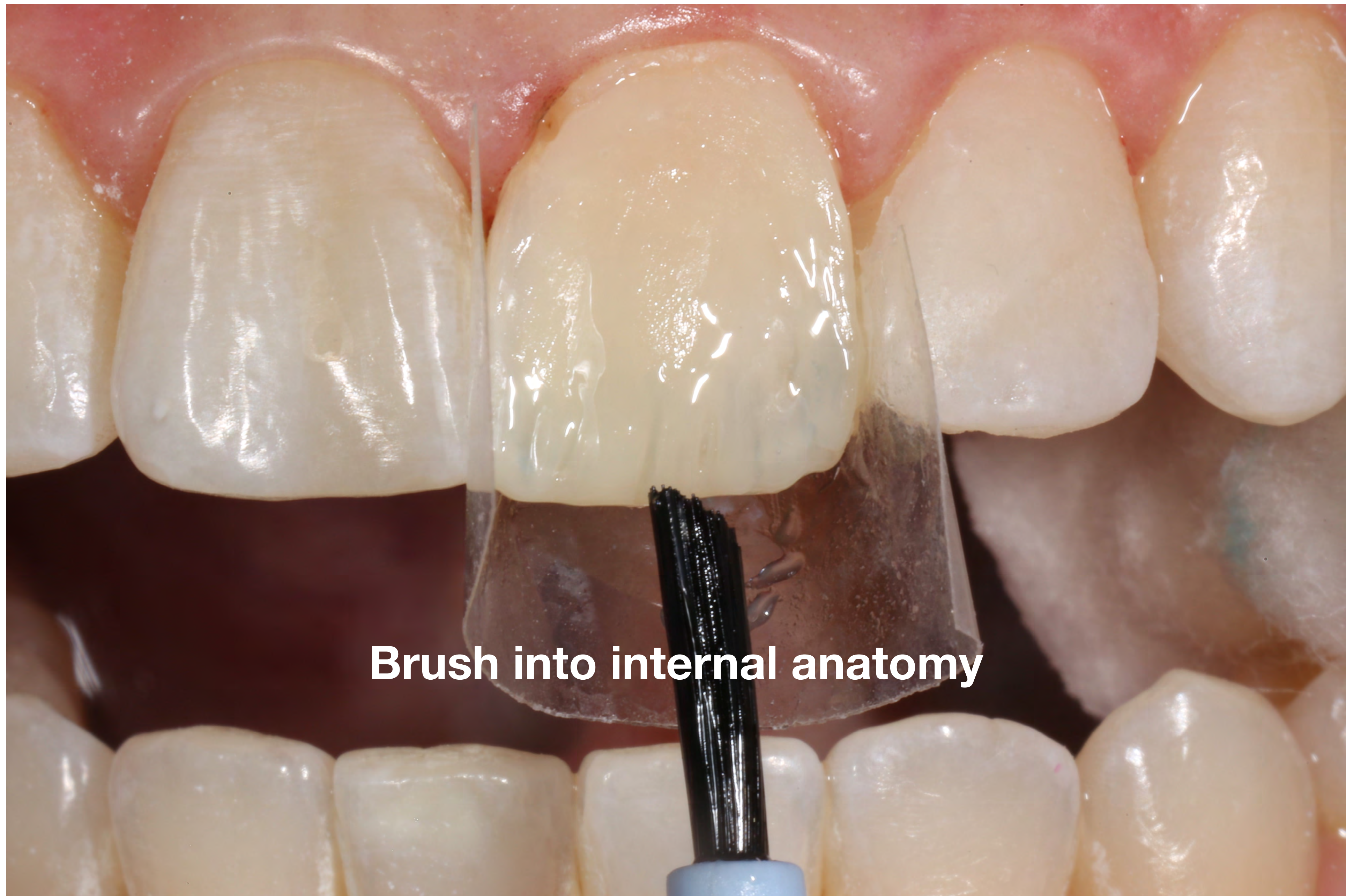
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Color Modifier

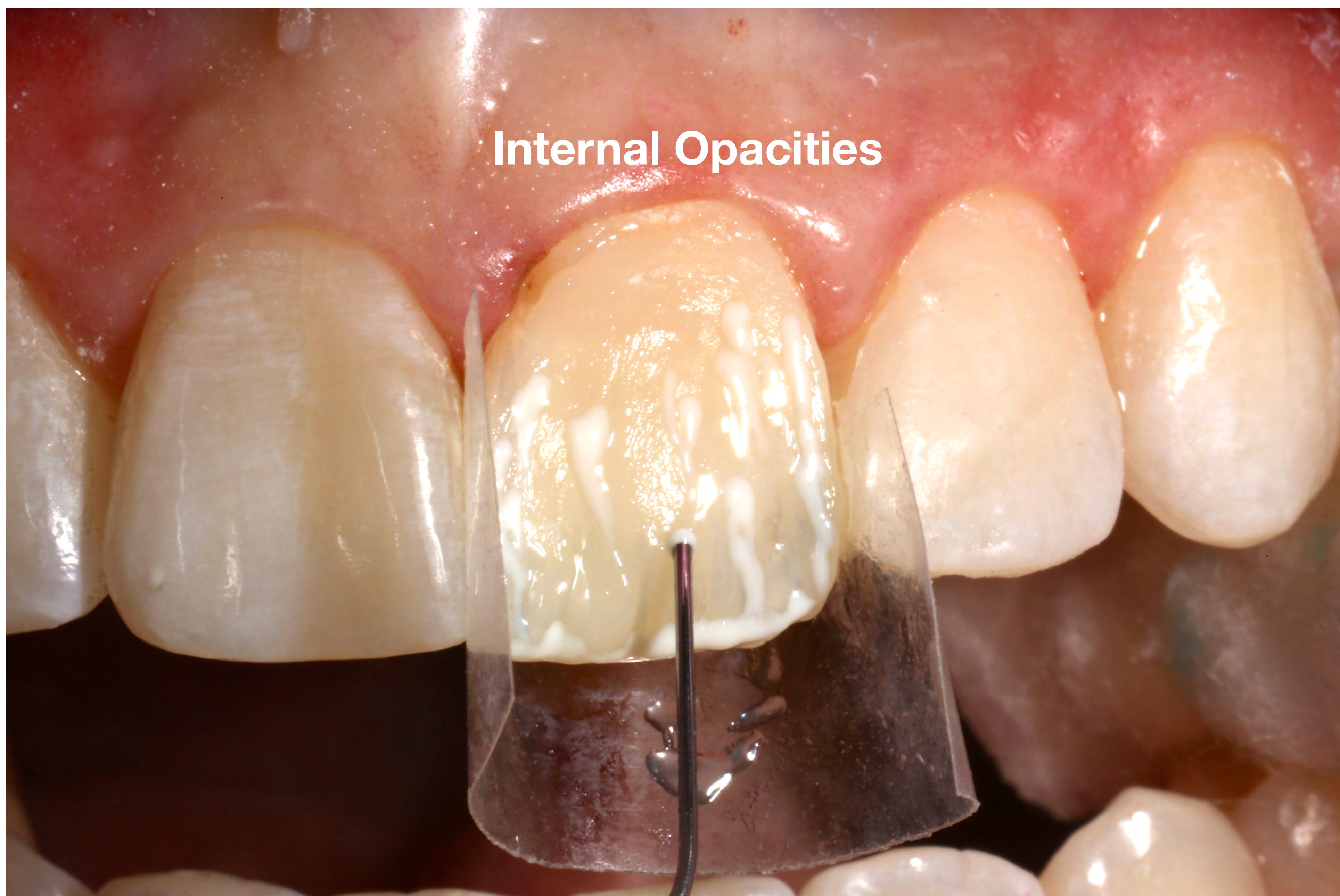


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Brush into internal anatomy

Internal Opacities





The Biting Edge™



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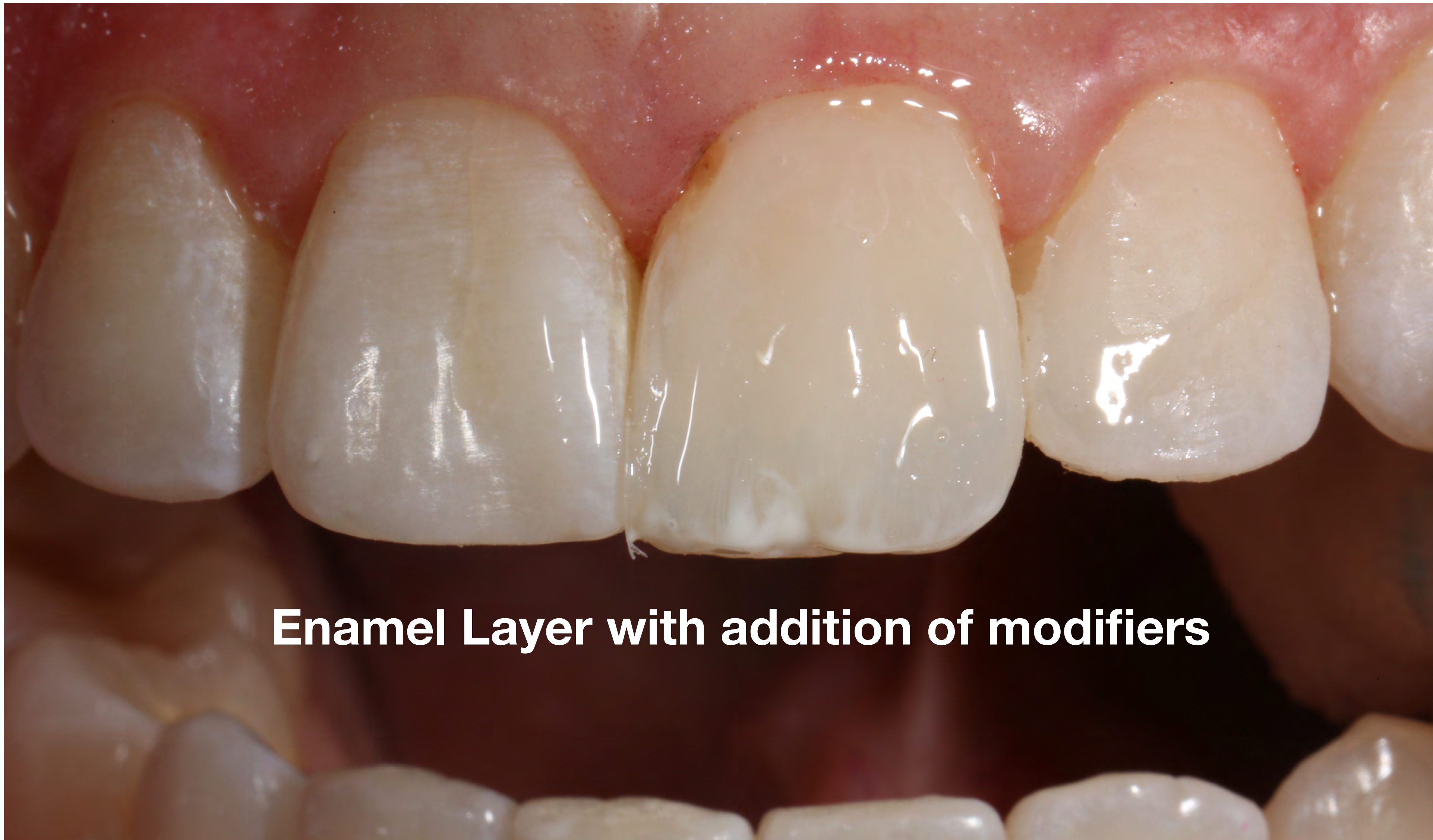




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Enamel Layer with addition of modifiers



Opal and Trans outer layer



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Line angle and contour markings

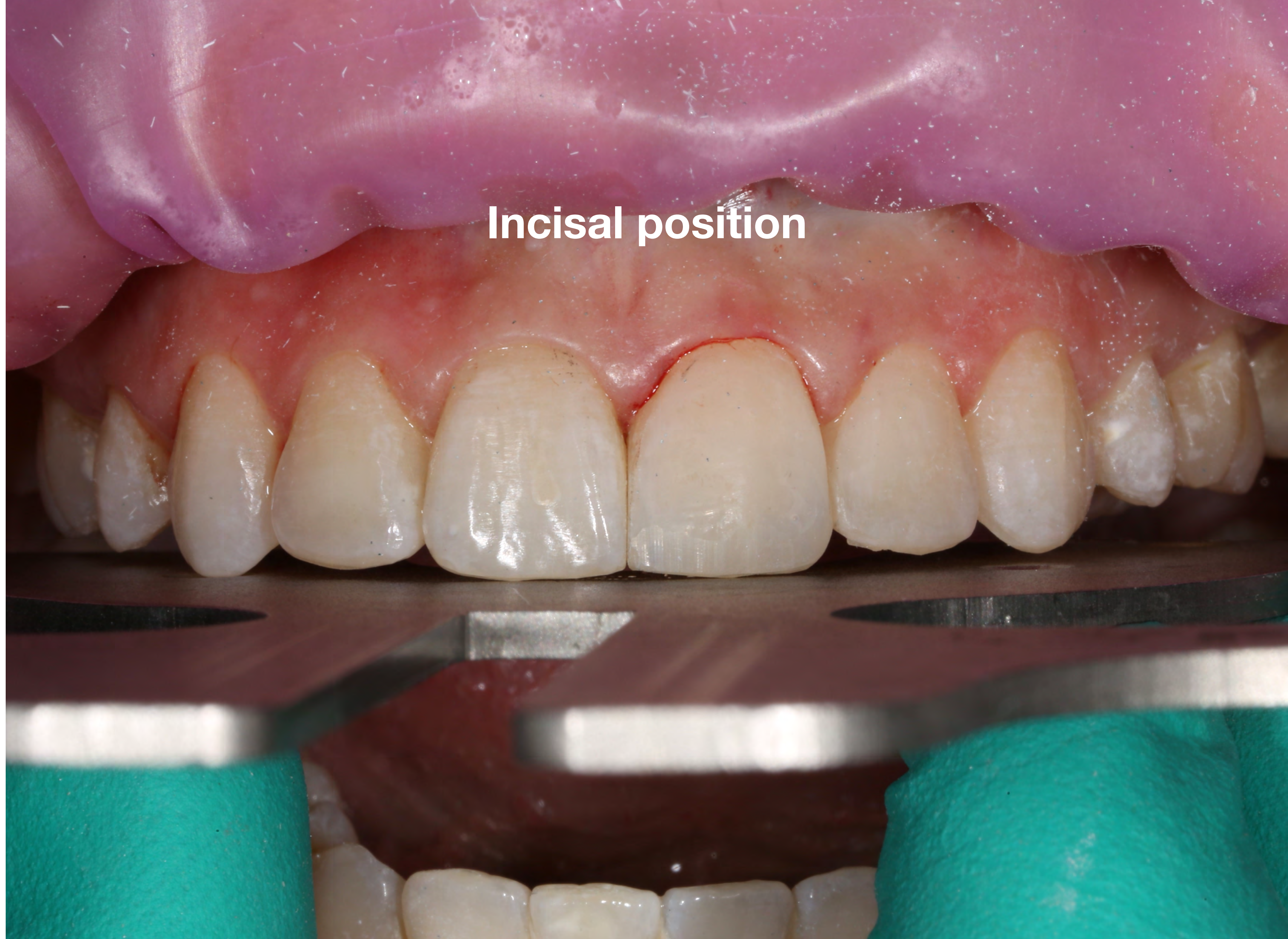
Bulk adjustment wheel
Kerr NTI Silicone pre polisher



Brasseler Diamond strips



Incisal position



Bulk Polish and Contour



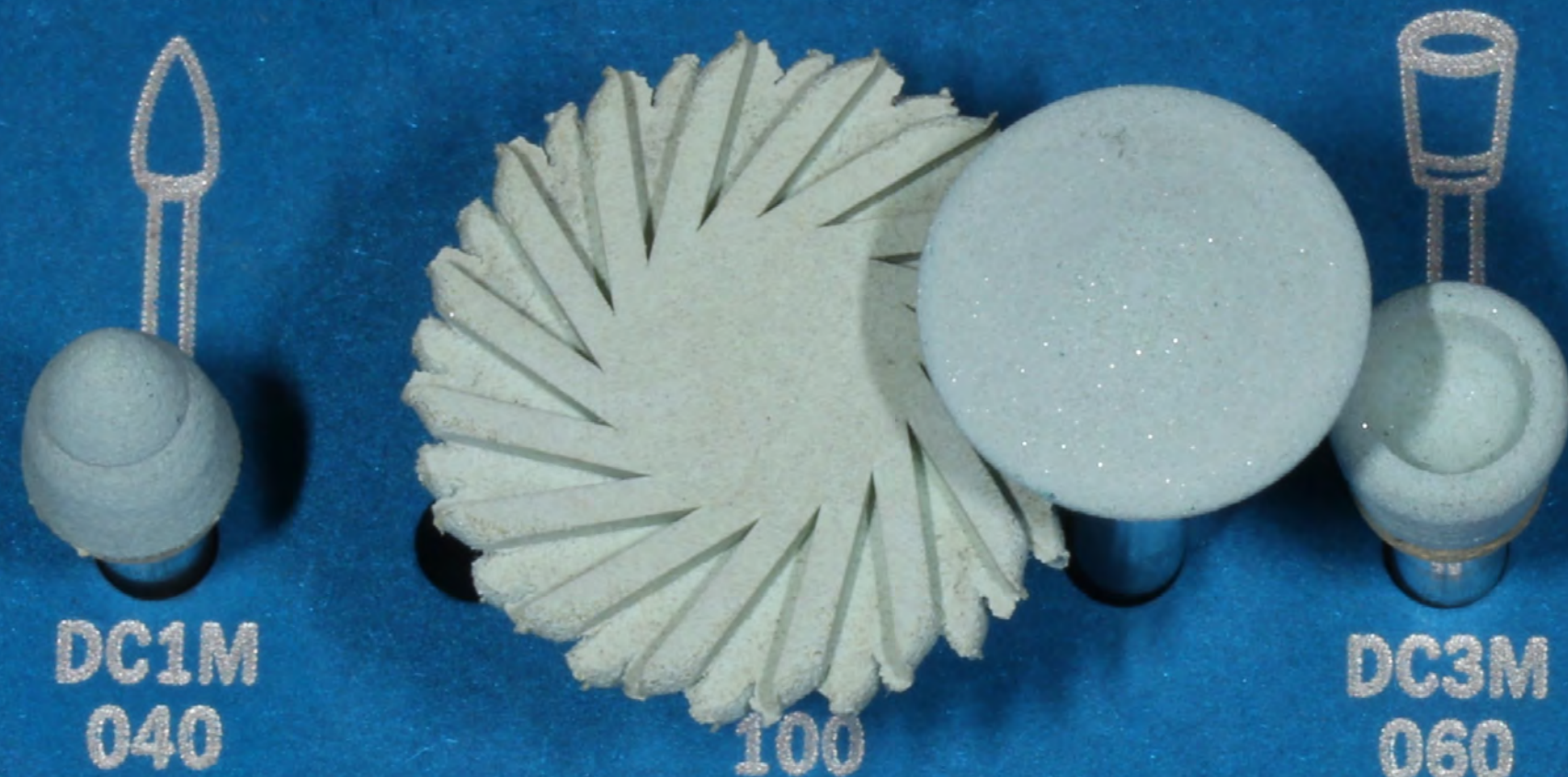
Protrusive Balance



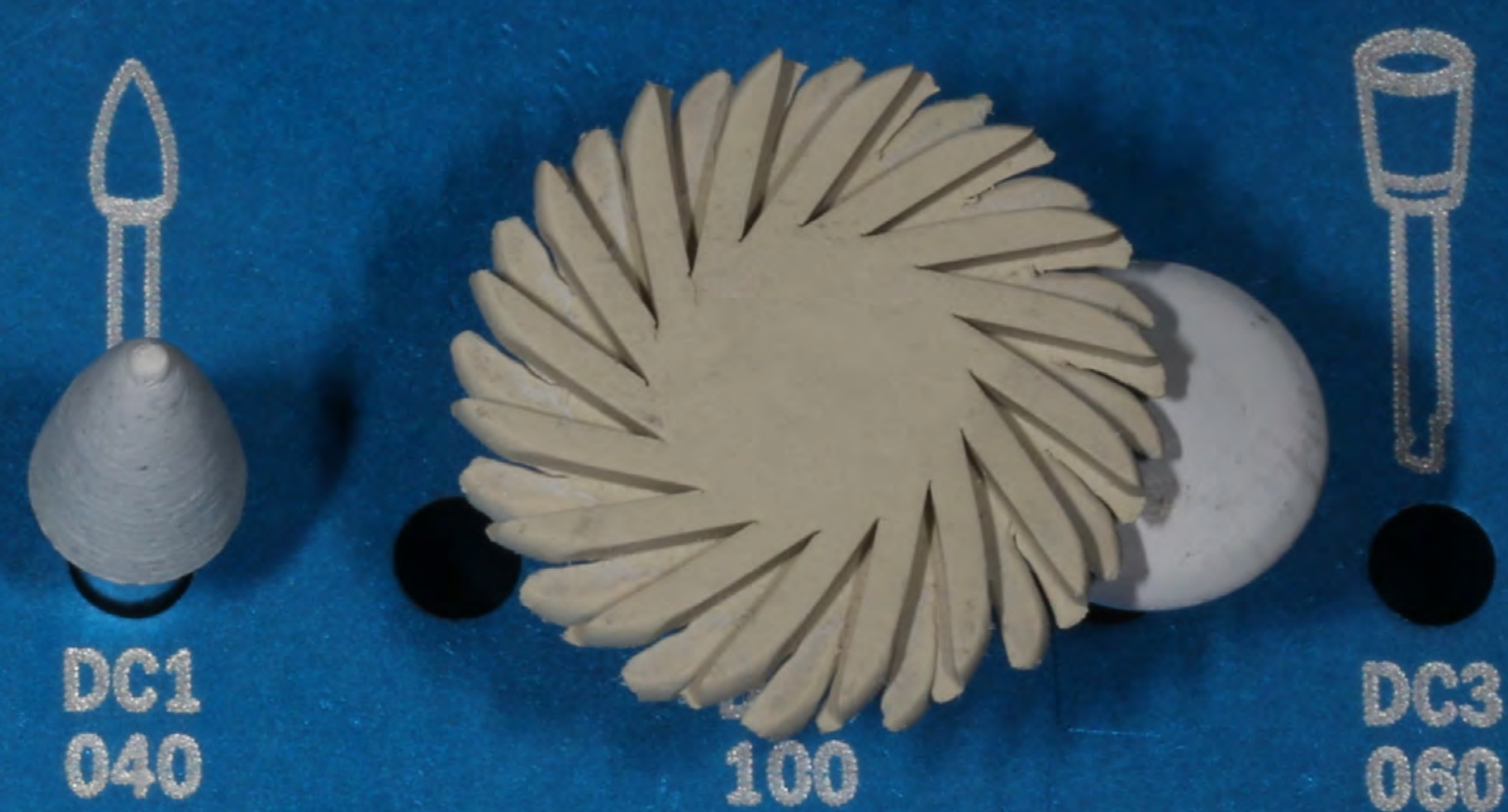
Protrusive Check



DIACOMP™ COMPOSITE POLISHING KIT



STEP 1 DIACOMP™ GREEN PRE POLISH
POINT KNIFE CUP



STEP 2 DIACOMP™ GRAY HI SHINE
POINT KNIFE CUP





The Biting Edge™



The Biting Edge™



The Biting Edge™



The Biting Edge™



Jiffy brush with water



Jiffy brush with .50m diamond paste



The Biting Edge™

DiaComp Dry then Water

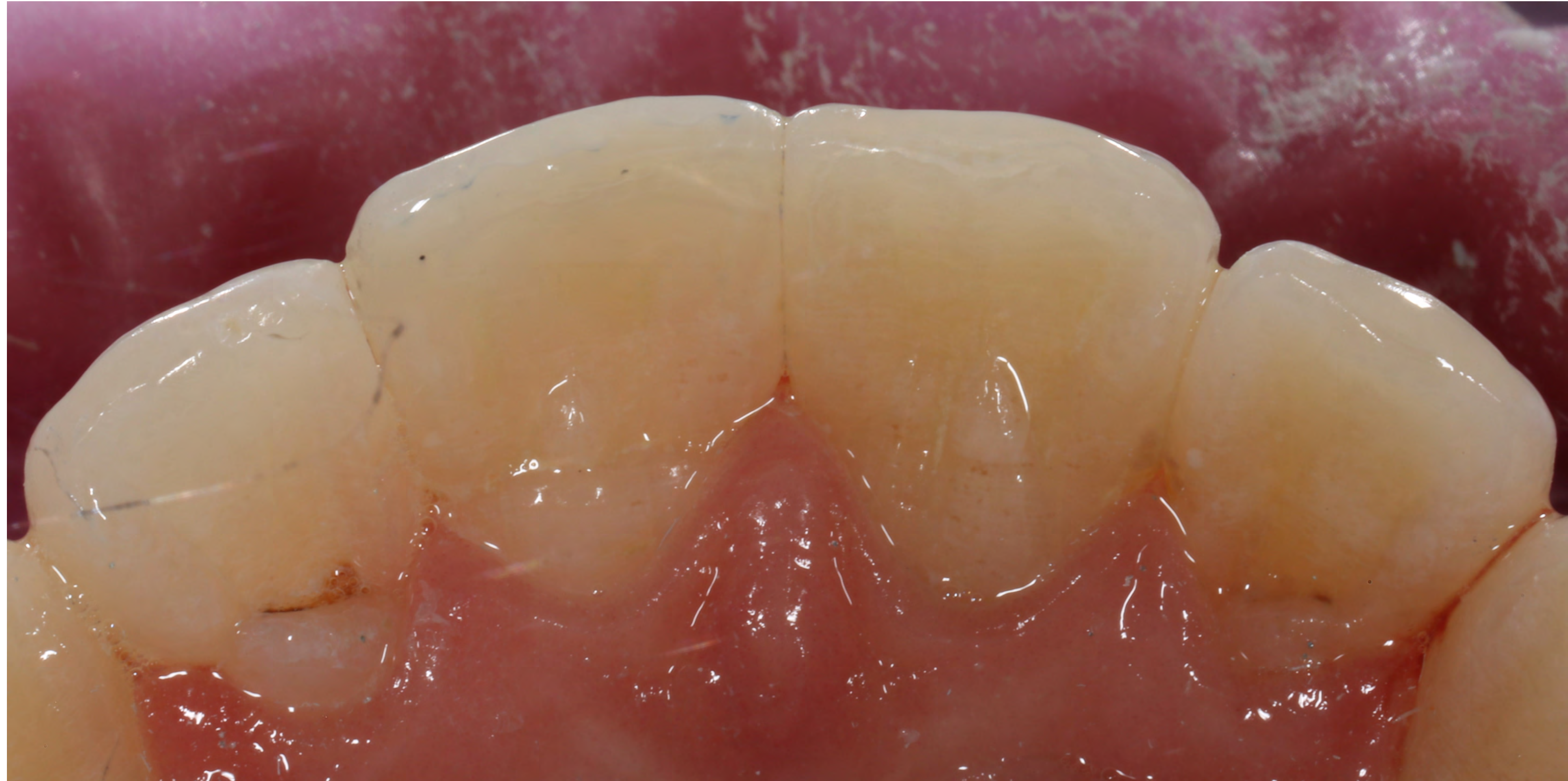




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Immediate post op



Protrusive Edge to Edge check





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Hands On

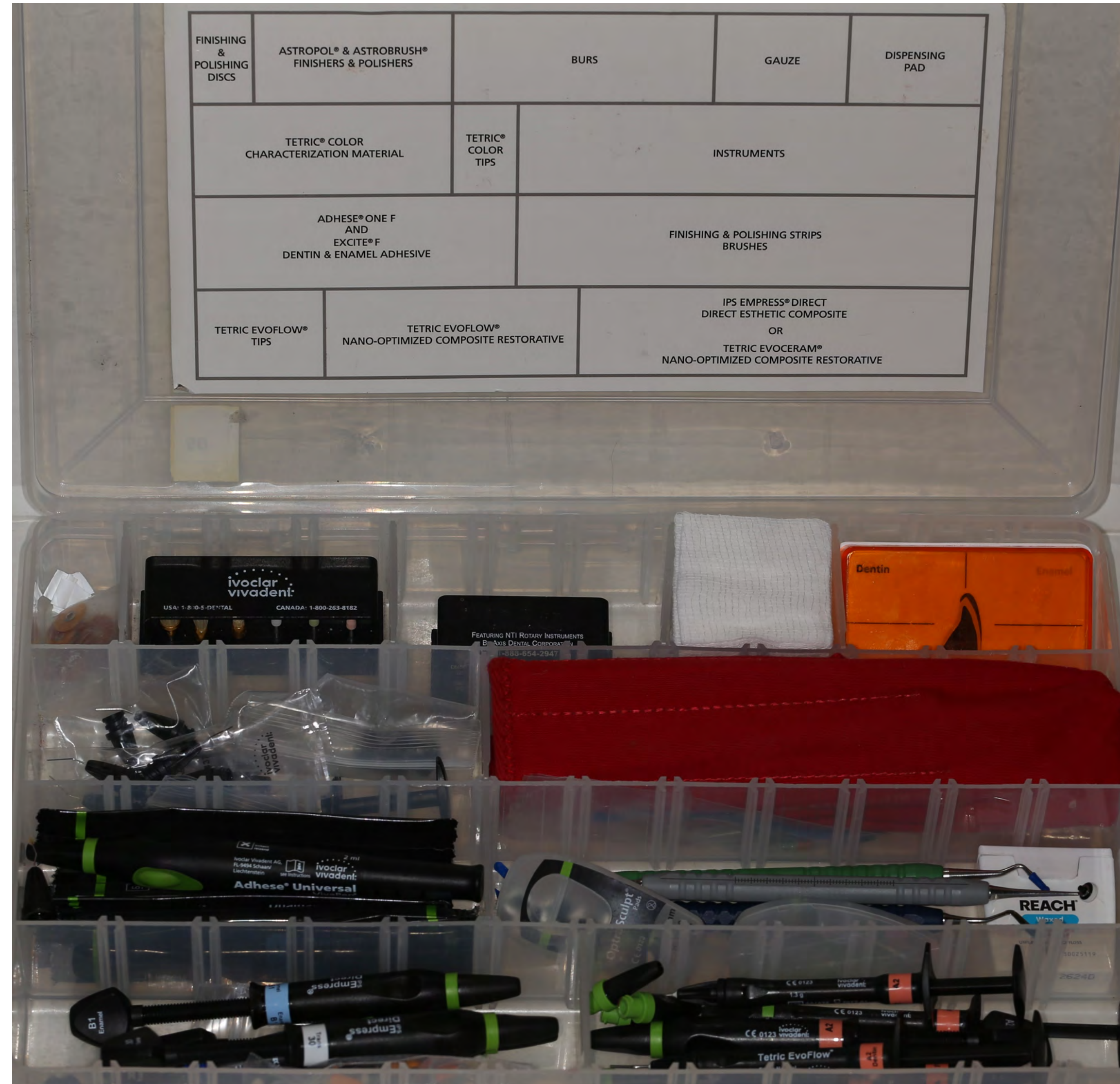
What you will be doing today

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Posterior Composites



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Ivoclar

Direct Hands On Restorative Kit

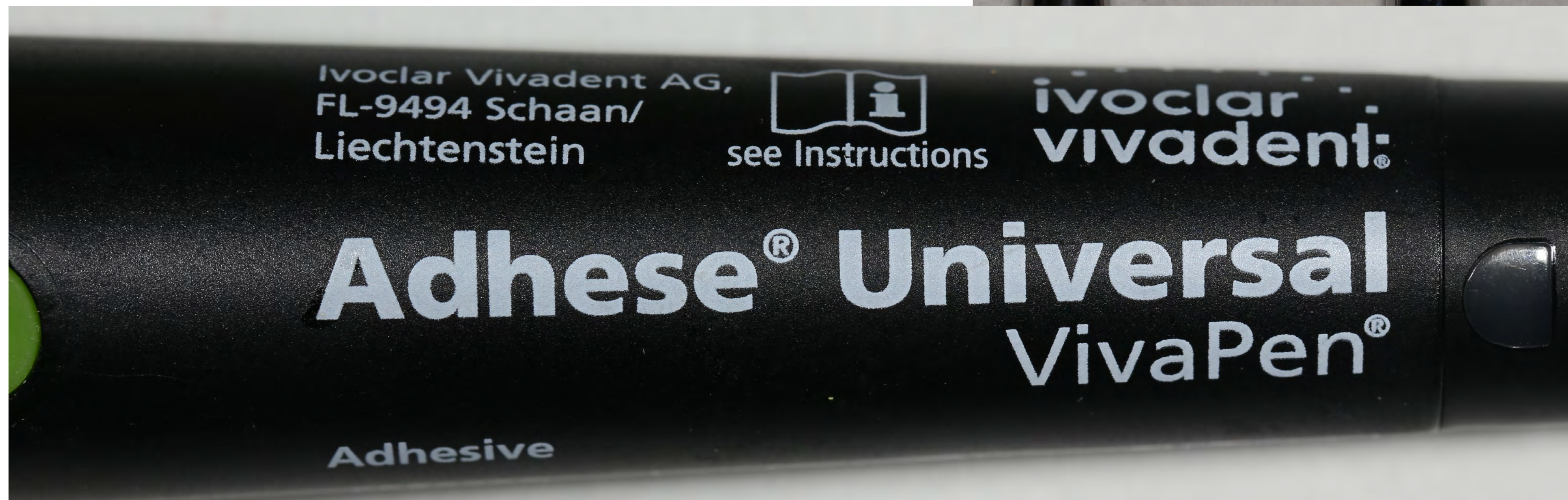
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Deep Occlusal

Tetric Bulk Flow and Tetric EvoCeram Bulk Fill

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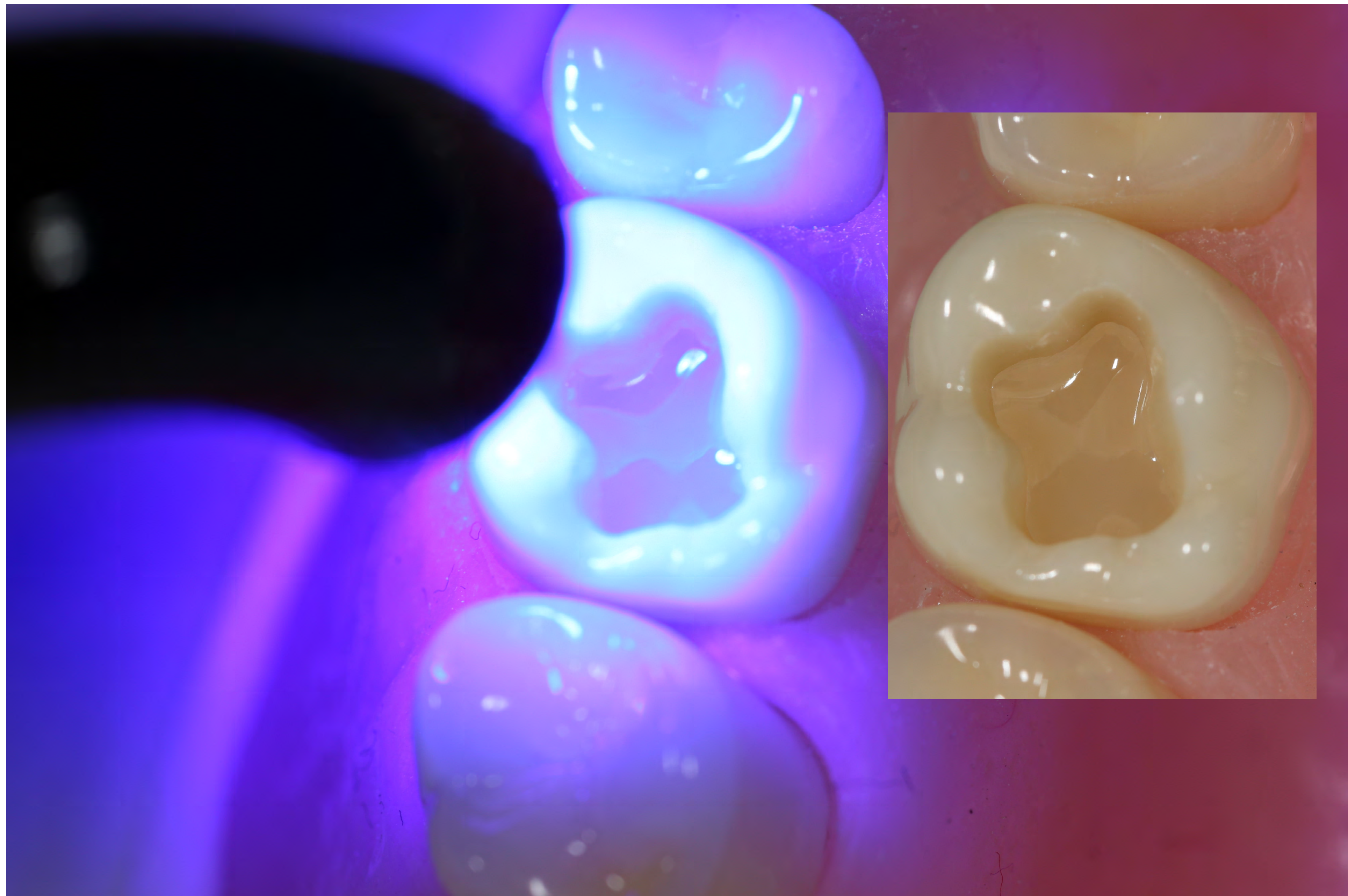






Bulk Flow Floor up to 4mm Thick

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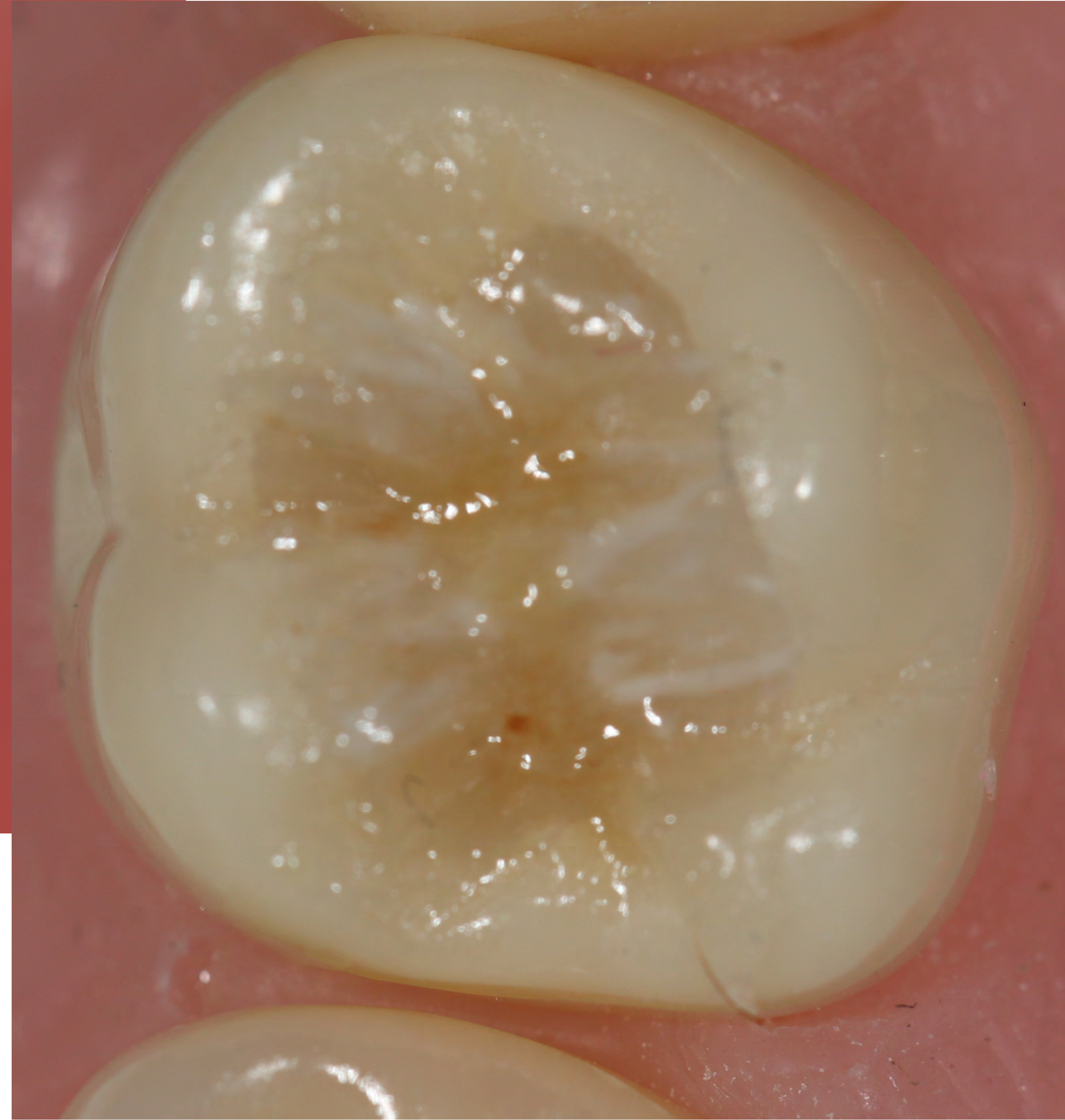
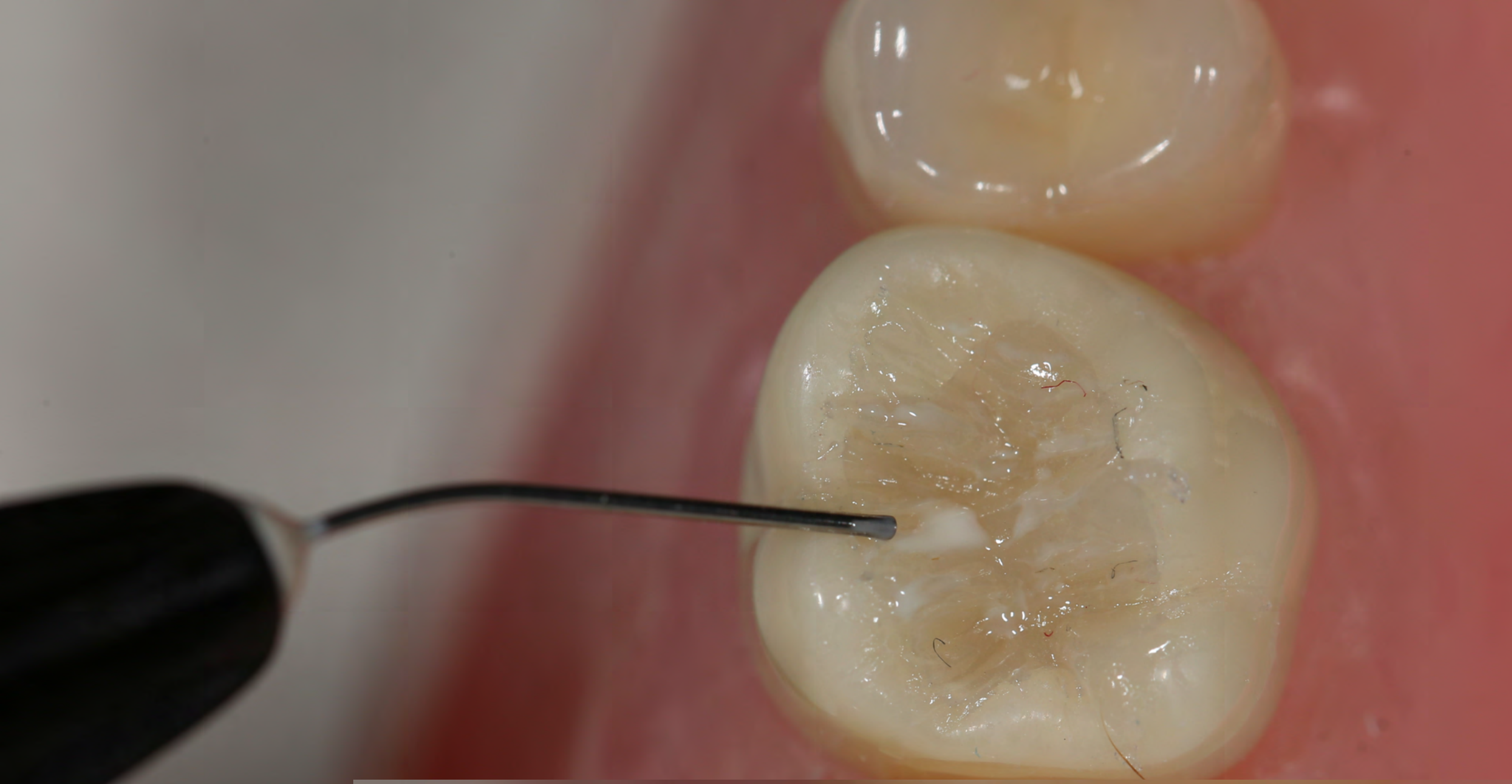


Full Contour Fill and Pack

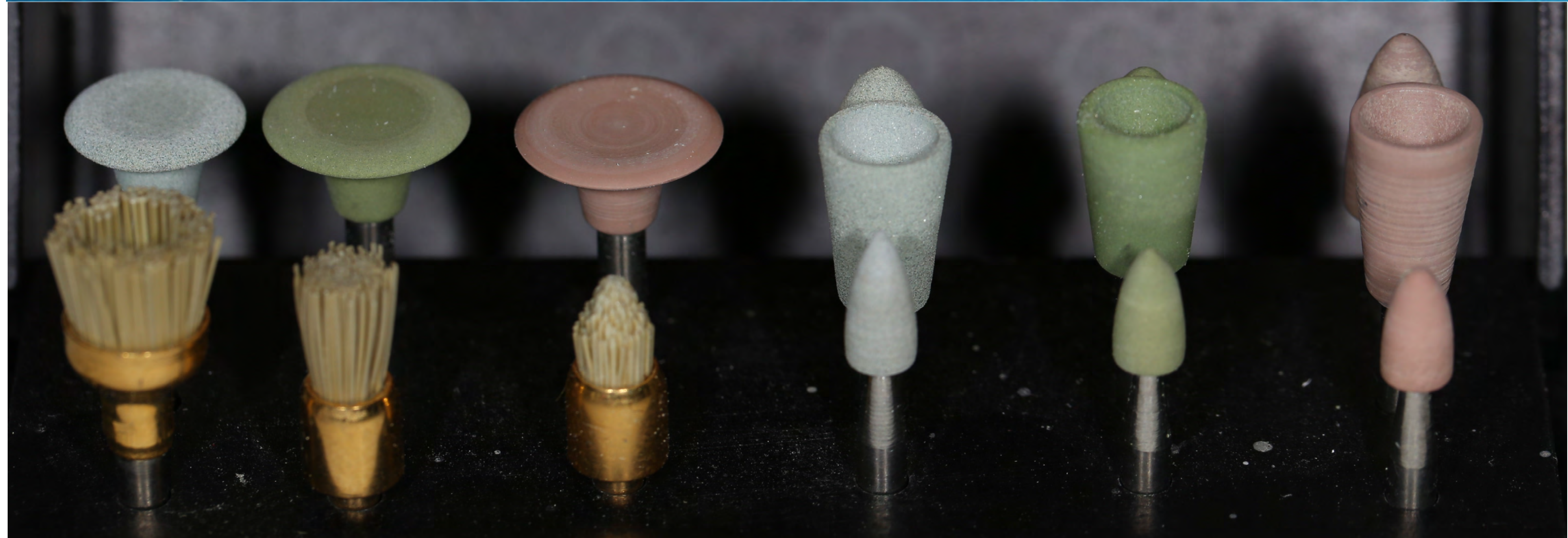
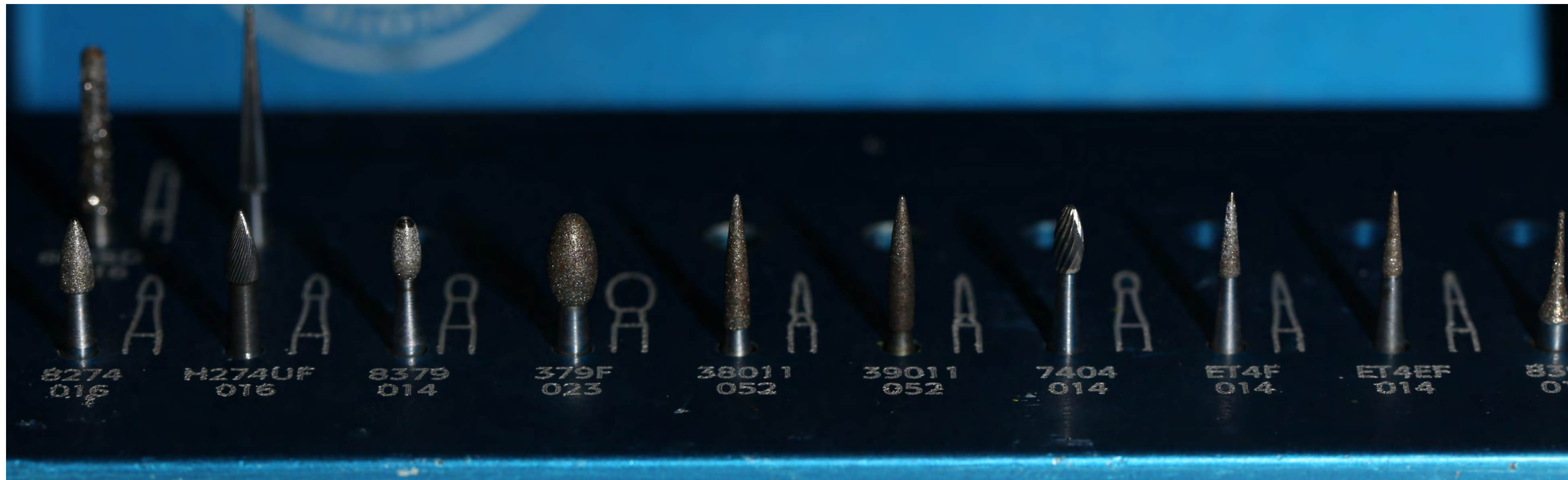
- EvoCeram Bulk allows for 4mm depth of cure
- Single or multi layer technique
- Long working time with great sculpt-able properties







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Class II

Sectional Anatomic Matrix Will Be Needed





3D Soft Face



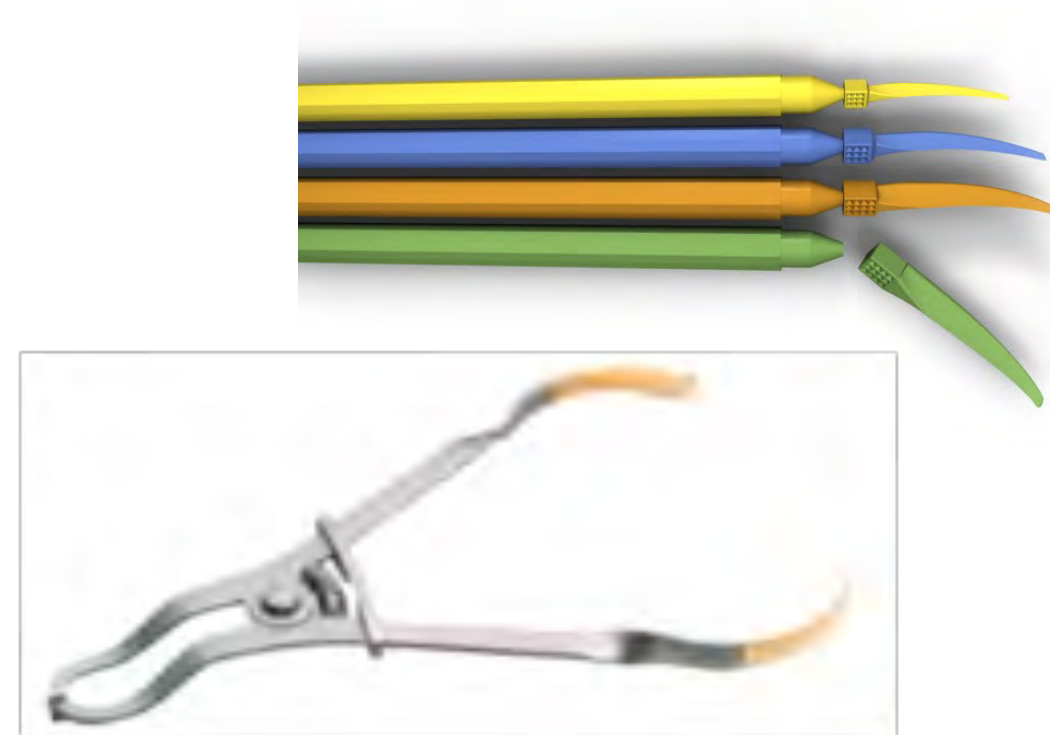
3D XR Soft Face



3D Soft Face Clear



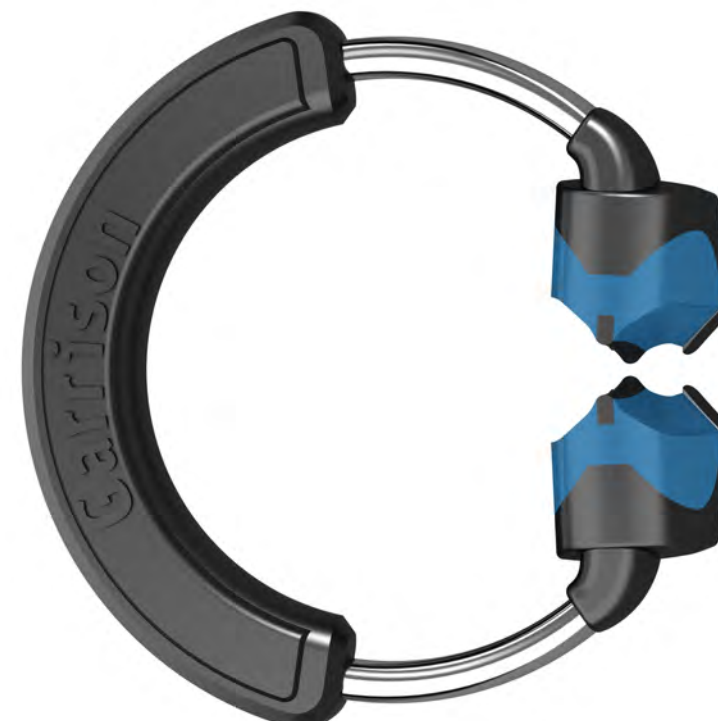
Thin Tine G-Ring



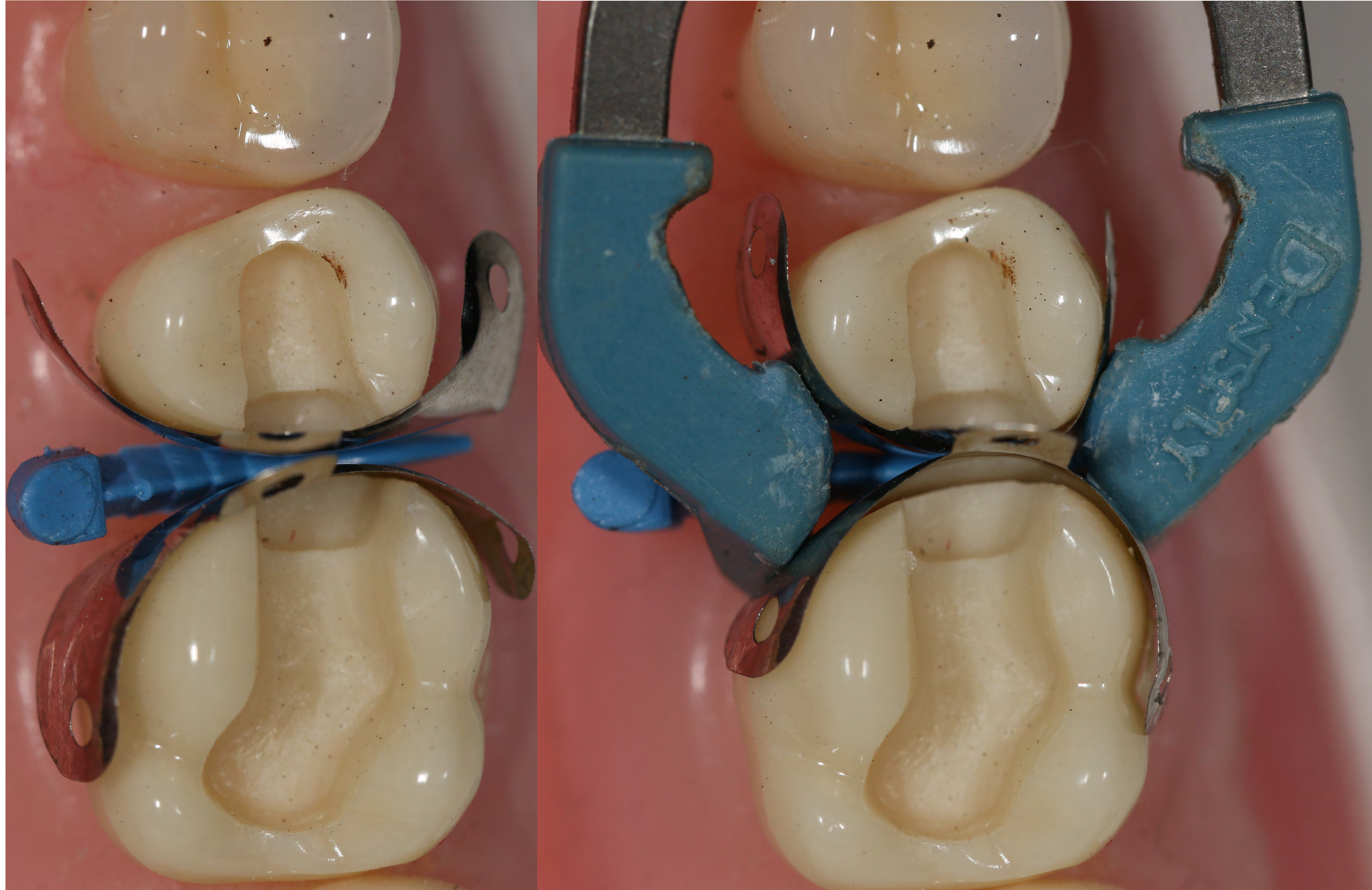
Adaptive Tines



Soft silicone faces



- ✓ Separates Teeth
- ✓ Adapts to tooth
- ✓ Great seal
- ✓ Faster finishing
- ✓ Fully autoclavable
- ✓ No Spring-Off



Many Different Types Of Sectional Matrix and Bands

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Tetric EvoFlow®

Filling Material

**Tetric
EvoCeram®**

Filling Material

A2

Tetric EvoCeram[®]



Tetric EvoCeram

The universal composite for anterior and posterior restorations

DESCRIPTION

IMAGES & VIDEOS

RESOURCES

Tetric EvoCeram

Tetric EvoCeram is the universal nano-hybrid composite for anterior and posterior restorations that offers outstanding esthetics. The filler technology found in Tetric EvoCeram is based on an optimum blend of different fillers and filler sizes.

Advantages

- Universal nano-hybrid composite for anterior and posterior restorations
- Proven clinical performance with over 150 million restorations placed worldwide
- More working time due to the patented light sensitivity filter
- Refractive Index technology ensures outstanding restorative results
- Long working time with a fast curing time
- Industry leading radiopacity
- 22 shades and 3 levels of translucency

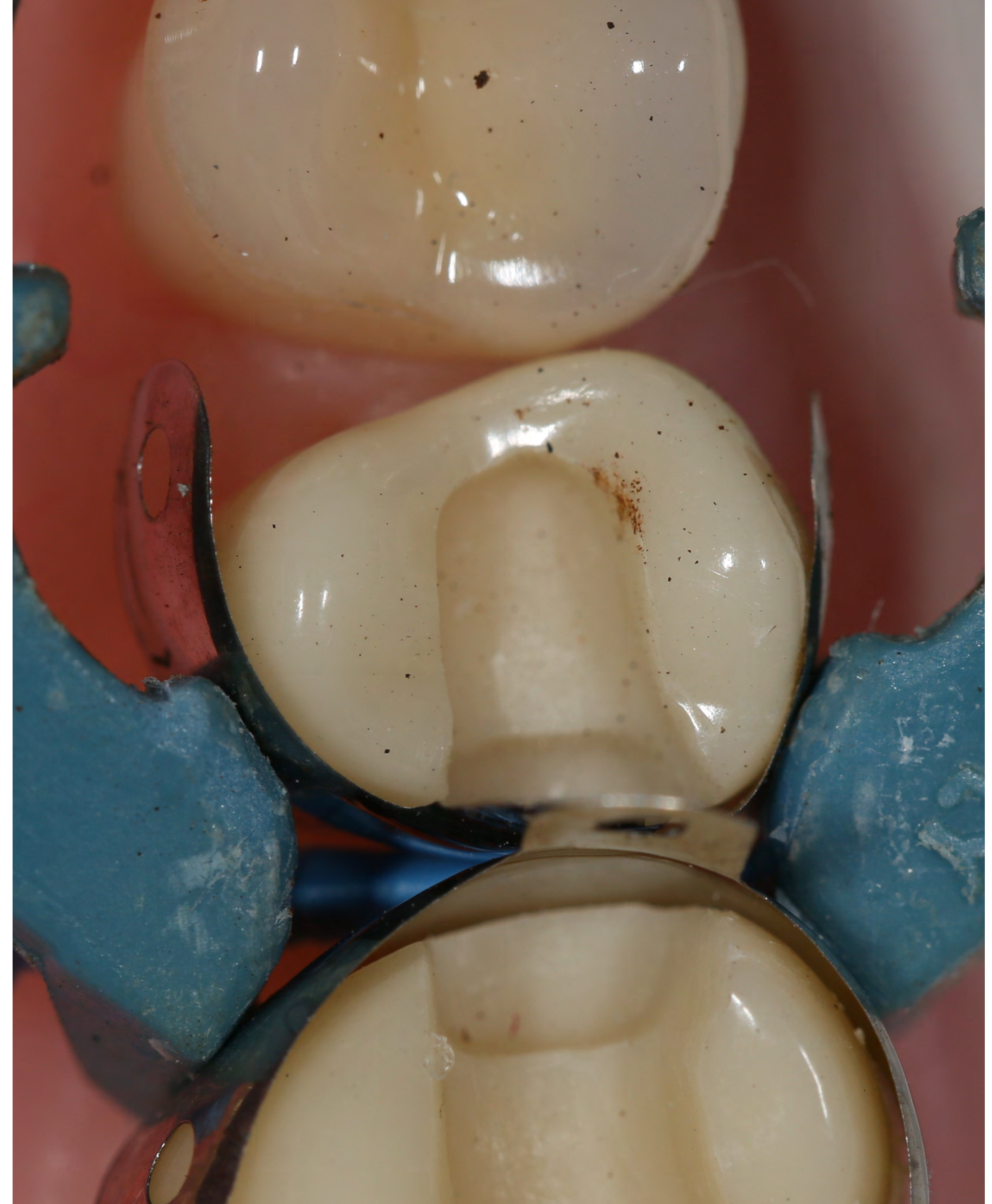


BUY NOW

Back to Back

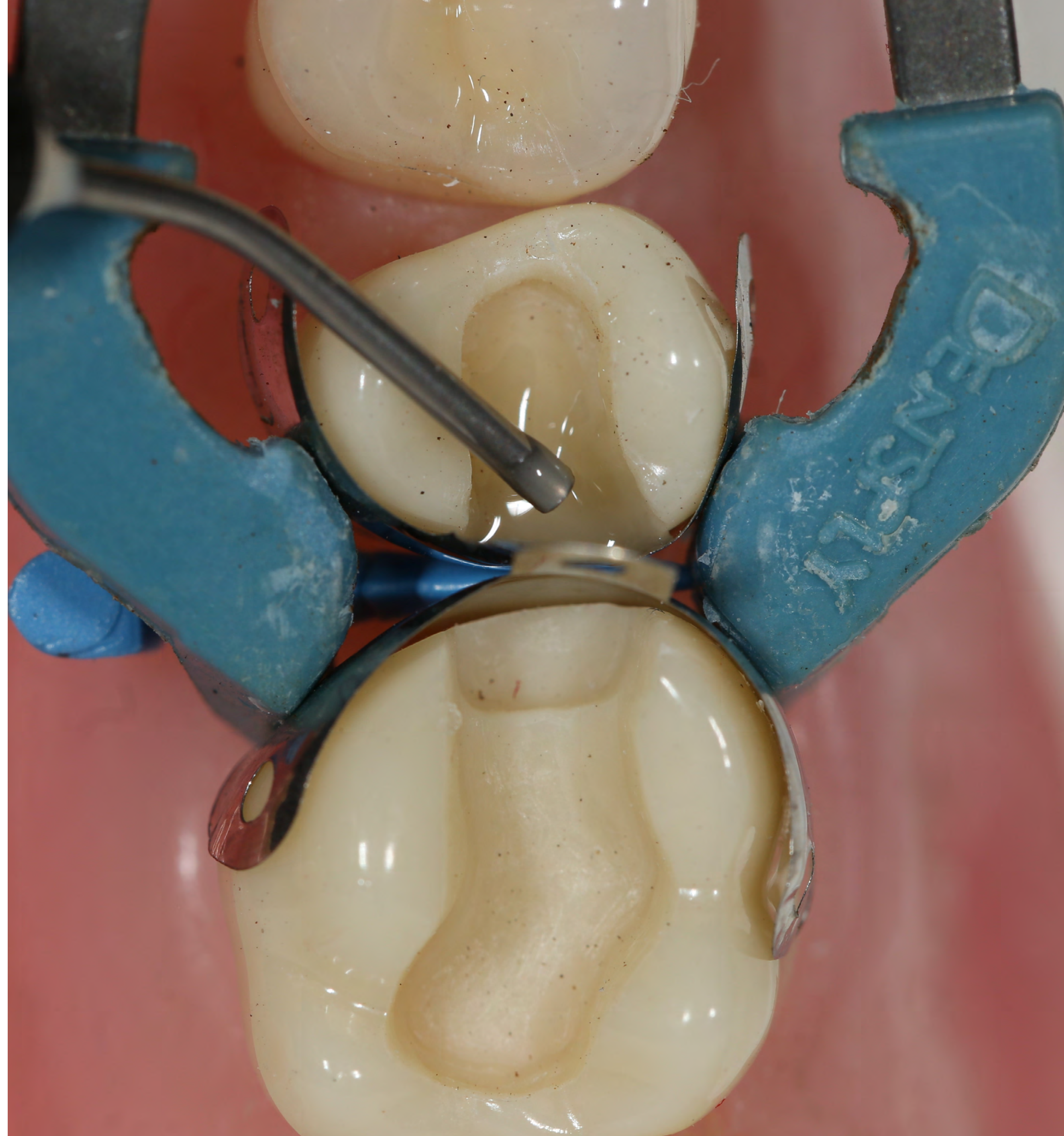
Class II

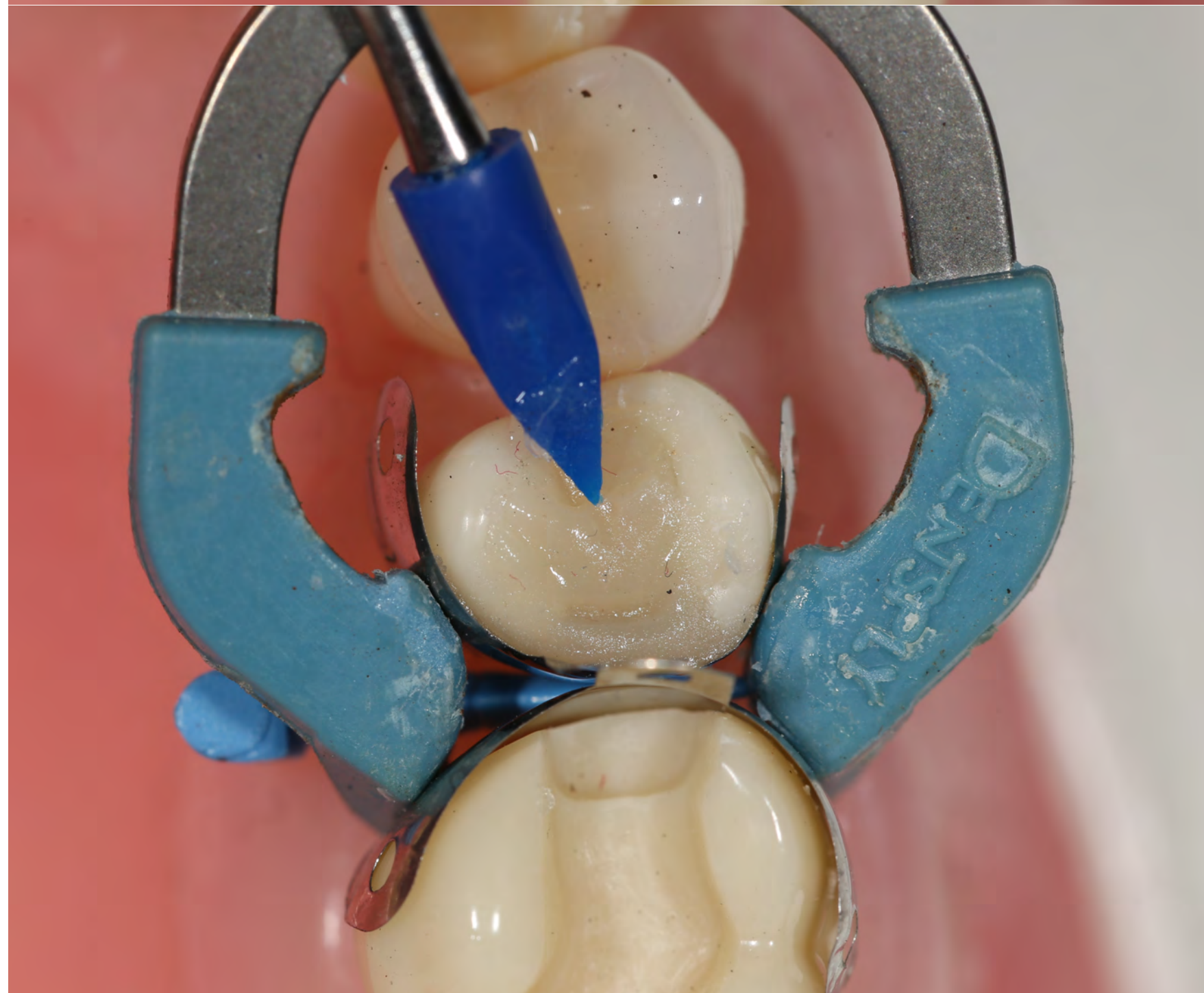
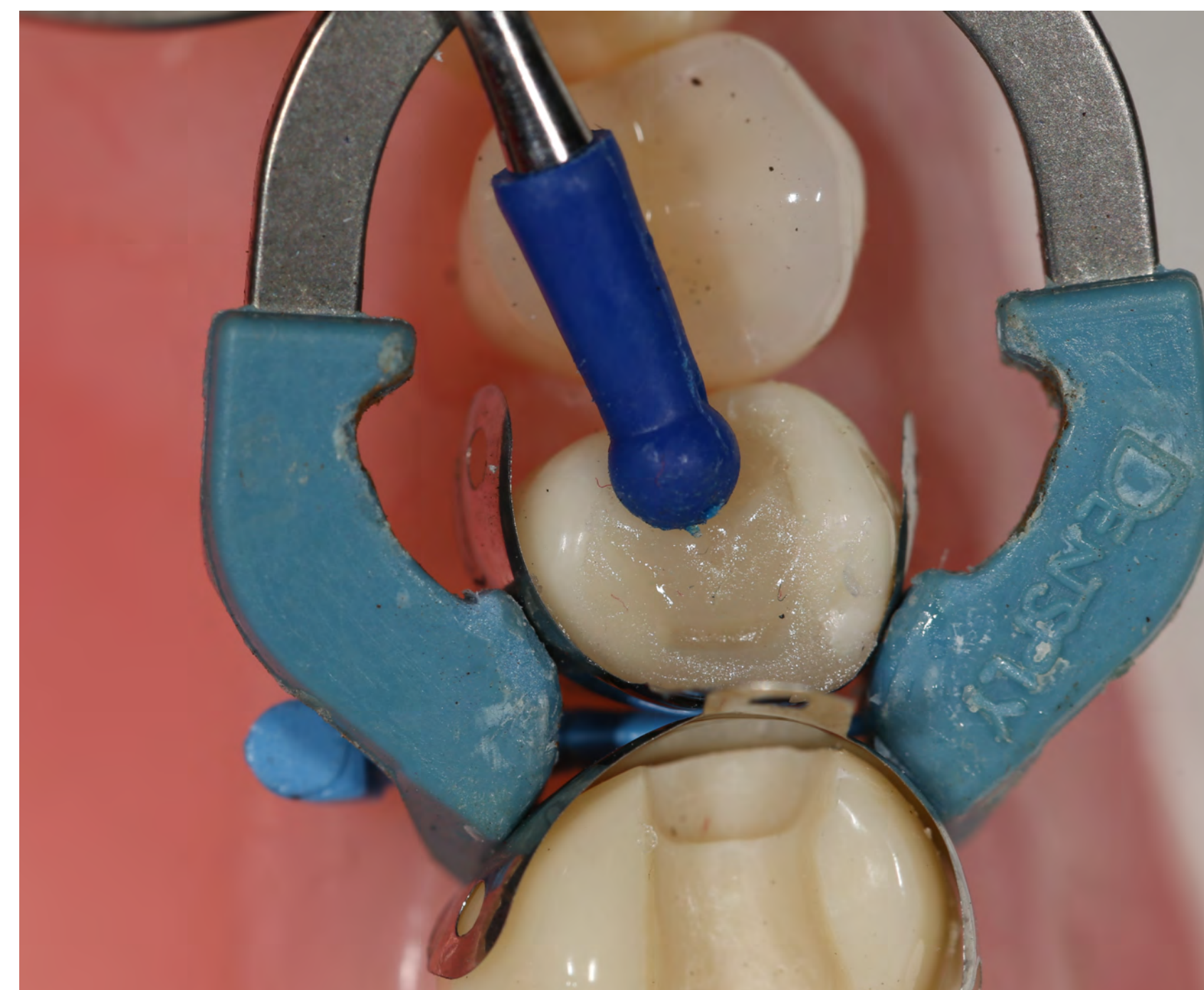
- Secure Matrix's, wedge and band
- Form the contact to ideal
- Plan is to fill one then the other to make IP contact and ideal form
- Clean, etch (Select or Total)
- Wetting agent, Glumma product (if in your bonding protocol)
- Bond with Adhese
- Air dry and cure



Flowable Layer

- Apply to floor and base of walls to slightly line the box and extend to the angle of the walls
- Cure
- Apply minimal amount of flow for wet pack of the next level of EvoCeram





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Molar Class II

- Multi layered Empress Direct
- Flowable layer on floor and contact formation
- Place Dentin on flowable floor then build Dentin up level
- Enamel top coat to form capping layer anatomy and groves
- Stain to highlight inclines and halo





Contact formation



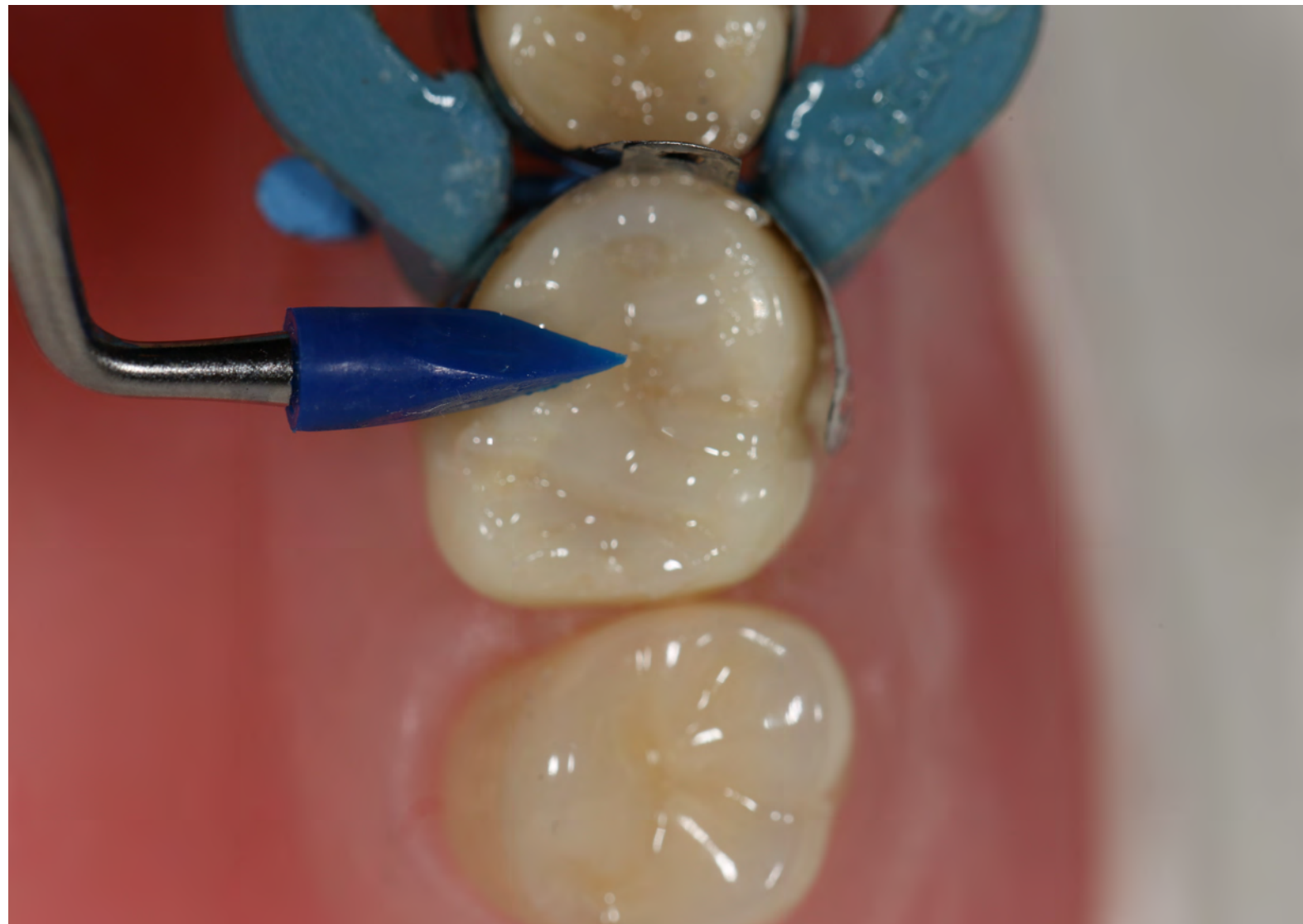
Hold firm when curing

Dentin Layer



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Enamel Layer and Contour



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Color Addition if Desired



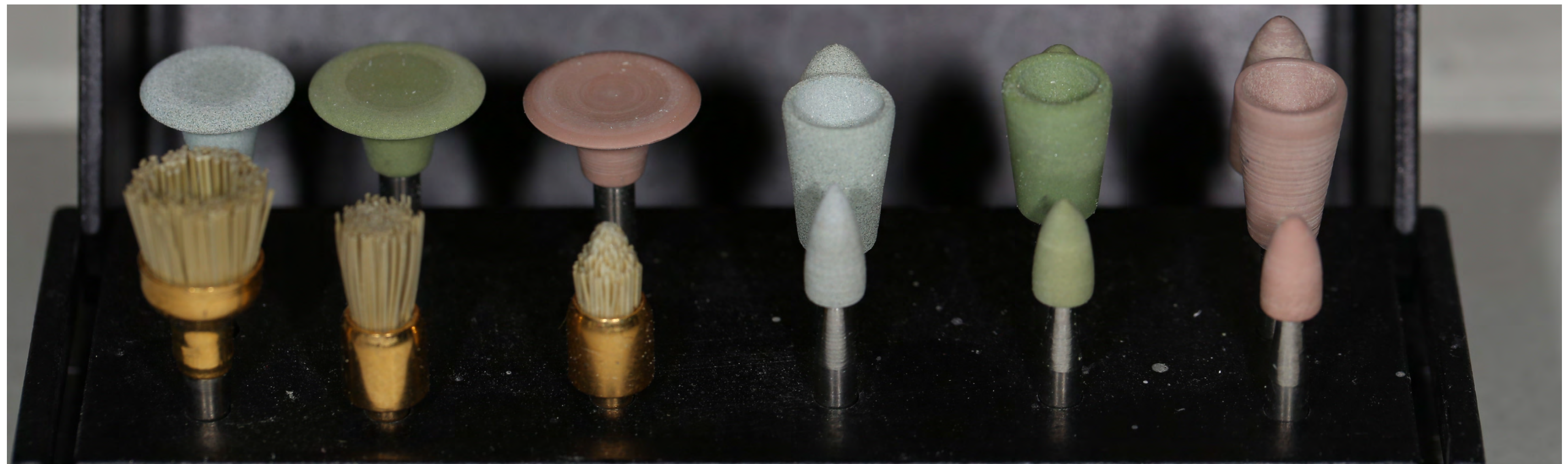


Ready for band removal
Check occlusion adjust and polish

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Adjust and Polish



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Anterior Direct Composites

Multi layered dentin, enamel with transparent layers
and color modifiers

This stuff is fun!

Natural Esthetics

Dentin:

reflective, opacous, colorful
thick cervically, lobes as you
approach incisal edge

Enamel:

translucent, opalescent
.3 mm at cervical, increasing
thickness incisally



Natural Esthetics

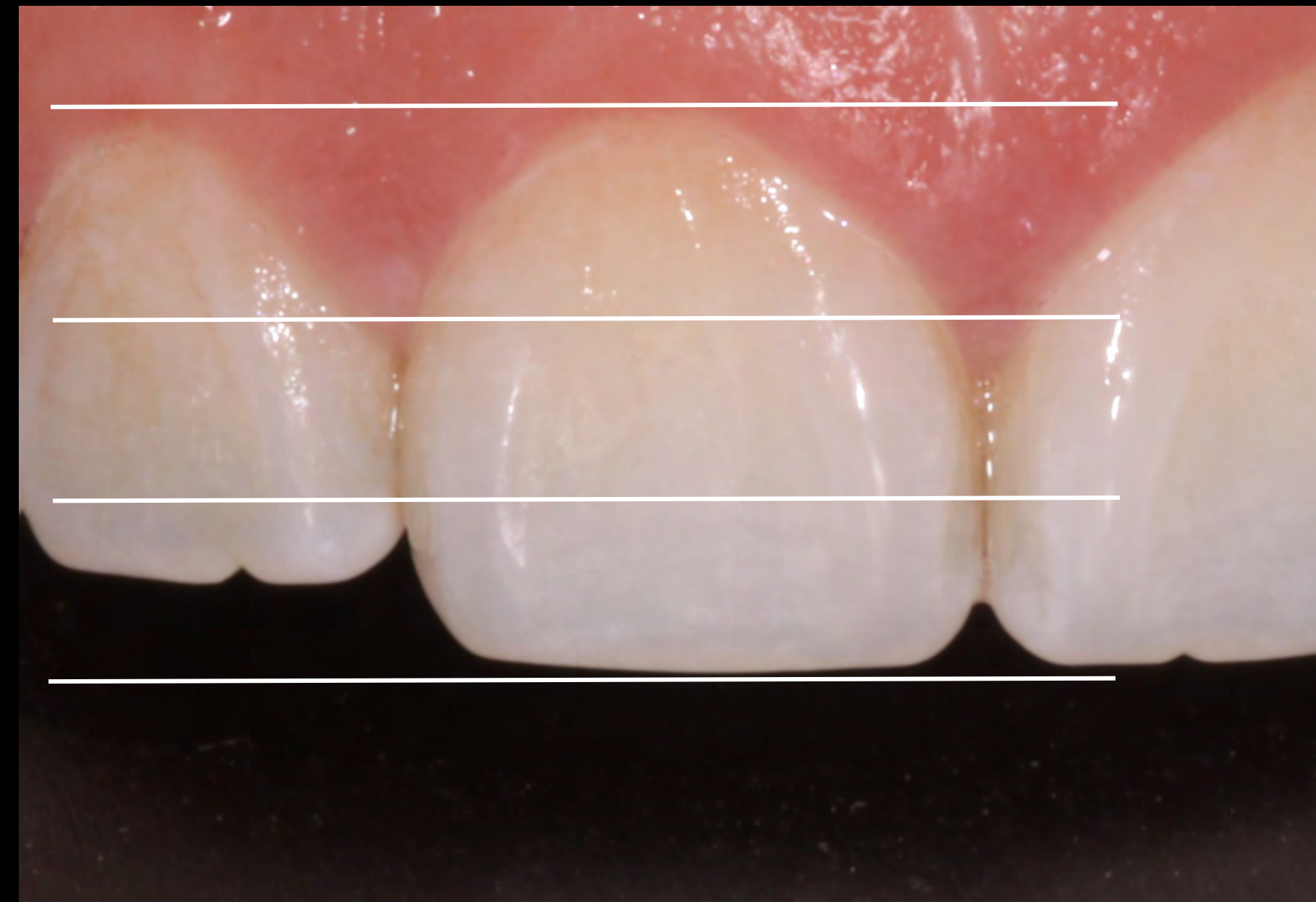
**Thin enamel, thick
dentin, high chroma**



**Thick enamel, thick
dentin, moderate
chroma**



**All enamel, high
translucency**



Natural Esthetics

Dentin:

Chroma increases with age, hue moves toward the orange with age.

Enamel:

thins with age



Chroma and Value Changes With Age



24 Years Old

69 Years Old

Plan Your Composites Accordingly

Color Layering Pre-Op to Determine Composite Selection





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Bond and Flowable Layer



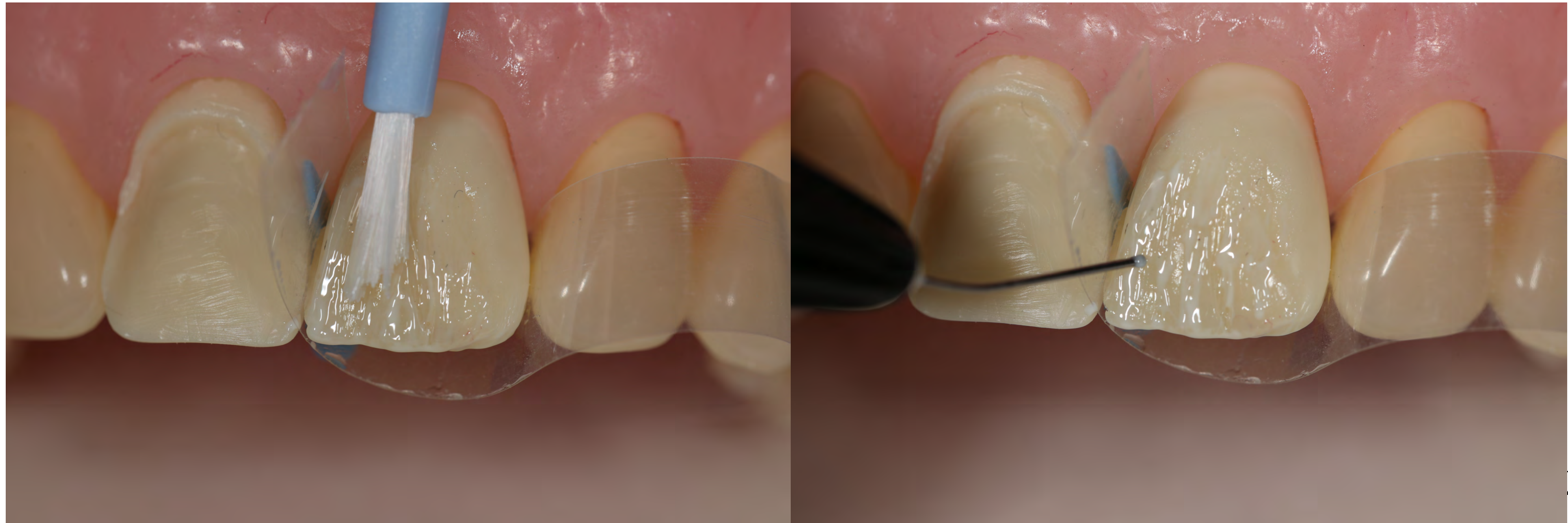


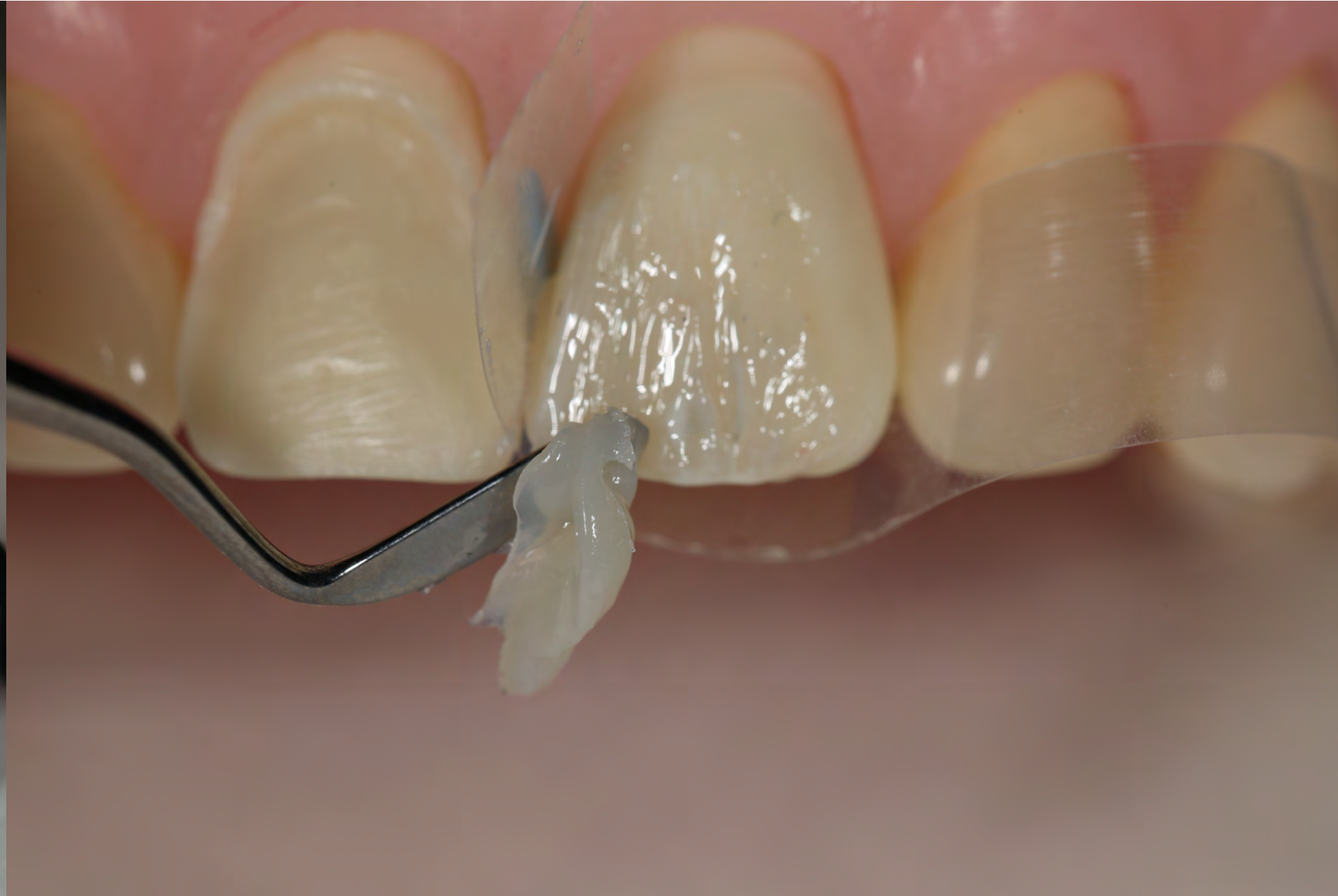
Dentin Layer





Internal Color Modifiers





Enamel Layer





Transparent Layer for Line Angles and Depth of Morphology



**Built Prior to Polish
Match the Veneer**



Bonding Phase

- Clean, prepare the surface (polish, air abrade, laser)
- Matrix, Mylar, Teflon tape, Varistrip, Tofflemire (Slick Band)
- Etch
- Wetting agent
- Bond (Adhese)
- Flow layer
- Cure



Flowable Layer



**Dentin layer build up to
underlying base
Establish lobes and
internal structure**



**White color
modifier
Line angles
internal lobes and
lingual incisal edge
Brush to thin**



Color Modifiers

- Layer above the dentin layer
- Blend strong value colors like blues and browns
- Brush for striation lines and depth illumination in lobes



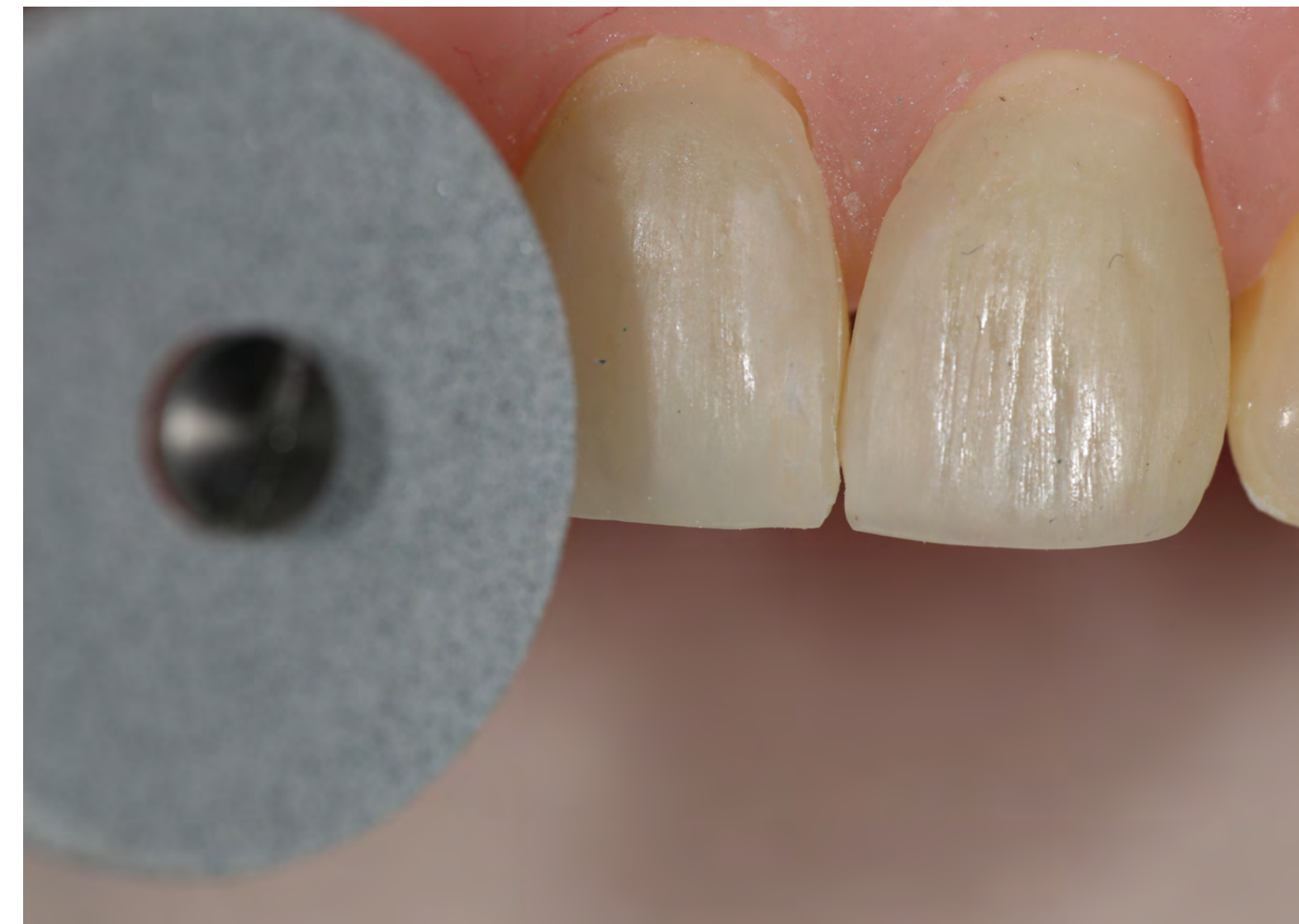
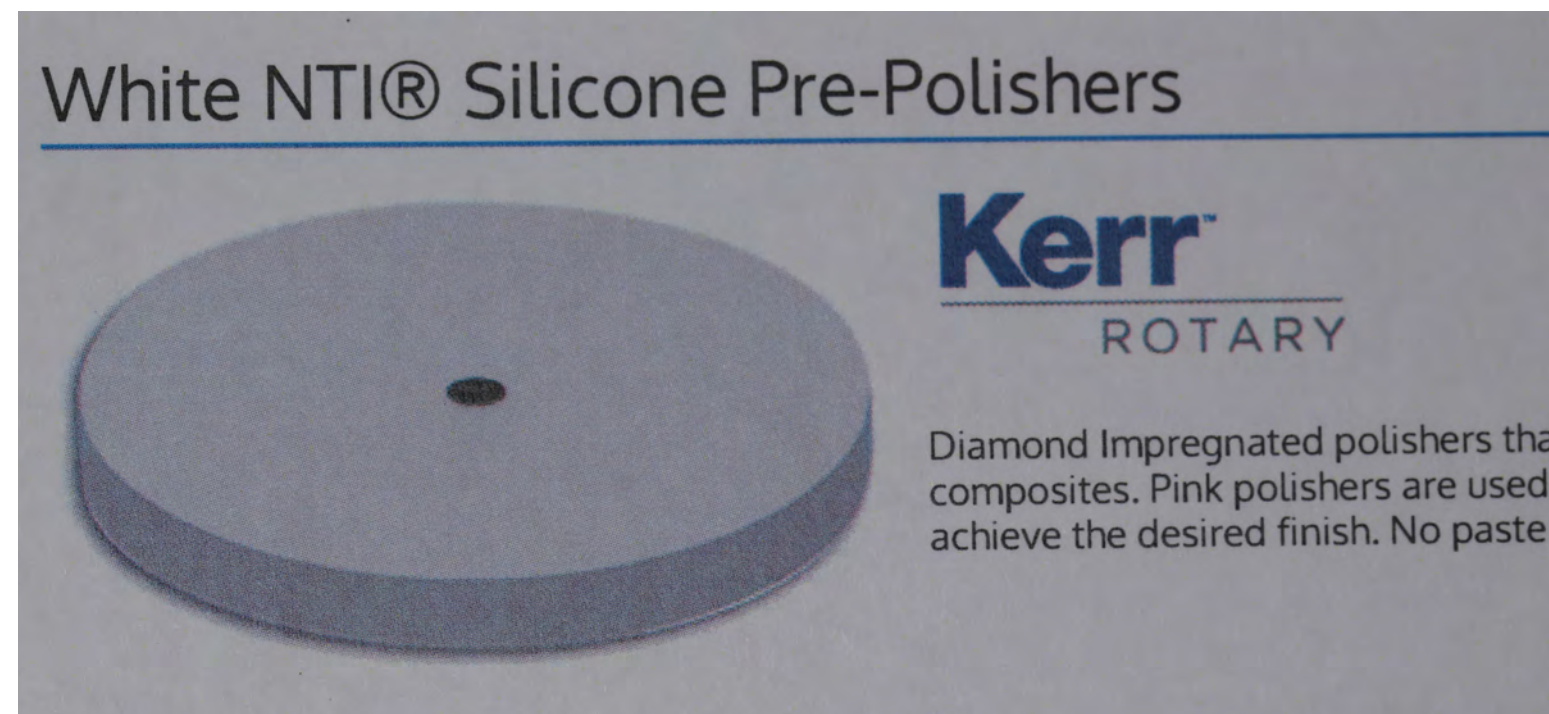
**Enamel layer
Spatula and OptraSculpt
Develop contour**



Opalescent layer
Line angles and facial
anatomy definition
Spatula and OptraSculpt



- Initial gross adjust and contour
- White NTI silicone pre-polish wheel
- Fine diamond and carbide modification



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Defined Adjustment

- Identify and enhance line angles and facial morphology
- Shofu one step contour polish
- Cut in and define facial anatomy



Astropol Composite Polishing Kit



Gray
Green
Red

**Use cups discs and points
as needed**



Dia comp® *FEATHER LITE*™
Composite



Two-Step Composite Polishing Intra-Oral System

Brasseler USA

Dia comp® *FEATHER LITE*™
Composite

Sterilization: Autoclave



*Rec: 5-8,000 RPM**
Max: 10,000 RPM

**for final polish reduce speed by half
(2-4,000 RPM)*



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Water



Paste





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Hands On

Time for you to Play with Ivoclar Composites

Have Fun

Try Different Materials

Try Different Instruments

Create Beautiful Teeth