

 **TRANSCEND™**
UNIVERSAL COMPOSITE

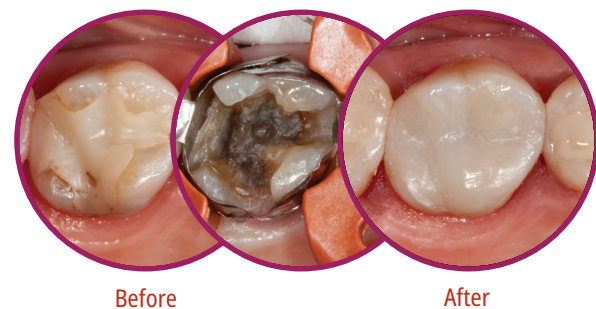
Restorations with **Just One Shade**





RESIN PARTICLE MATCH™

Transcend composite and its Universal Body shade has been designed with Ultradent's Resin Particle Match™ technology. The balanced refractive indices between the resin and filler particles, combined with a carefully optimized tuning between translucency and opacity, allow Transcend composite to blend with most surrounding dentition with just one shade and without the use of a blocker.¹



Patient presented with a failing composite restoration. Filling was removed, which revealed tattooing and mesial crack. The mesial crack was still a small, manageable size and therefore a direct bonded restoration could be done instead of an indirect crown restoration. Products used: Ultra-Etch™ etchant, Conesepis™ solution, and Peak™ Universal Bond adhesive. A very thin layer of A3 PermaFlo™ flowable composite was used for the initial layer. Transcend composite Universal Body shade was used to restore the tooth. Composite was adjusted according to occlusion and polished up beautifully.

Courtesy of Dr. Jaleena Fischer-Jessop



Patient presented with recurrent decay on amalgam restoration on tooth #28. Tooth was restored using Transcend composite Universal Body shade. No opaquer was used as Transcend composite Universal Body shade had enough opacity to cover amalgam tattooing while blending in with the natural tooth color.

Courtesy of Dr. Jaleena Fischer-Jessop



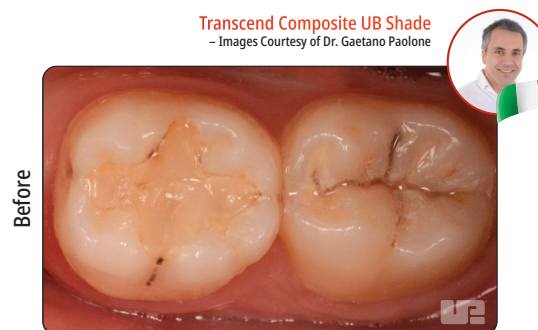
Patient presented with discolored and defective distal buccal tooth color restoration on tooth #11 and mesial buccal on #12. Secondary caries beneath #12. Gingival recession caused the black triangle space seen. Defective restoration and caries were removed. Darker yellowish dentin can be seen at the cervical area. Translucent enamel present. The preparation was etched and bonded per manufacturers' instructions, then Transcend composite Universal Body shade was placed to reduce interdental space. Transcend composite is able to mimic surrounding tooth color. No staining or layering was needed.

Courtesy of Dr. Adrian Goh



One-Shade Restorations

In the cases shown below, only the Transcend composite Universal Body shade was used.



1. Data on file.

Transcend Composite UB Shade
- Images Courtesy of Dr. Jaleena Fischer-Jessop



Before



After



Transcend Composite UB Shade
- Images Courtesy of Dr. Gaetano Paolone



Before



After



Transcend Composite UB Shade
- Images Courtesy of Dr. Brigham Stoker



Before



After



Transcend Composite UB Shade
- Images Courtesy of Dr. Jose Carlos Garofalo



Before



After



Transcend Composite UB Shade
- Images Courtesy of Dr. Jaleena Fischer-Jessop



Before



After



Transcend Composite UB Shade
- Images Courtesy of Dr. Jose Carlos Garofalo



Before



After



Transcend Composite UB Shade
- Images Courtesy of Dr. Adrian Goh



Before



After



Transcend Composite UB Shade
- Images Courtesy of Dr. Susan McMahon



Before



After



Transcend Composite UB Shade
- Images Courtesy of Dr. Andrea Franzò



Before



After



Transcend Composite UB Shade
- Images Courtesy of Dr. Rafael Beolchi



Before



After



Transcend Composite UB Shade
- Images Courtesy of Dr. Peter Auster



Before



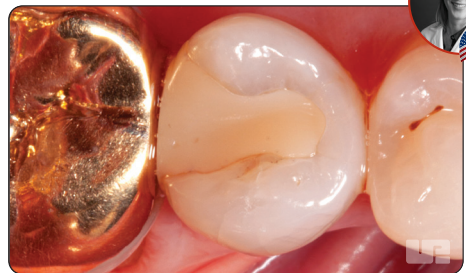
After



Transcend Composite UB Shade
- Images Courtesy of Dr. Jaleena Fischer-Jessop



Before



After



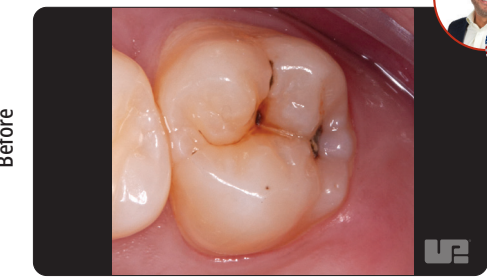
Transcend Composite UB Shade
- Images Courtesy of Dr. Brigham Stoker



Transcend Composite UB Shade
- Images Courtesy of Dr. Gary Findley



Transcend Composite UB Shade
- Images Courtesy of Dr. Gary Findley



Transcend Composite UB Shade
- Images Courtesy of Dr. Adriano Lima



Transcend Composite UB Shade
- Images Courtesy of Dr. Jaleena Fischer-Jessop



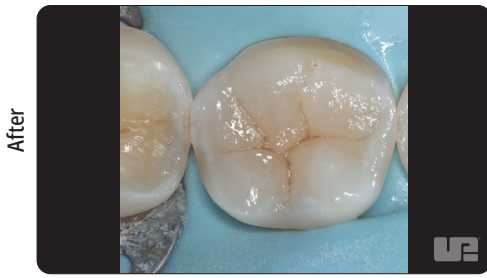
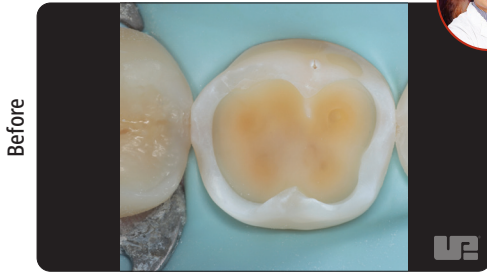
Transcend Composite UB Shade
- Images Courtesy of Dr. Brett Richins



Transcend Composite UB Shade
- Images Courtesy of Dr. Brigham Stoker



Transcend Composite UB Shade
- Images Courtesy of Dr. Yo Han Choi



Transcend Composite UB Shade
- Images Courtesy of Dr. Jaleena Fischer-Jessop



Transcend Composite UB Shade
- Images Courtesy of Dr. Jaleena Fischer-Jessop



Transcend Composite UB Shade
- Images Courtesy of Dr. Adrian Goh



Transcend Composite UB Shade
- Images Courtesy of Dr. Rafael Calixto



Transcend Composite UB Shade
- Images Courtesy of Dr. Mia Vukelic



Transcend Composite UB Shade
- Images Courtesy of Dr. Andrea Franzò



Transcend UB Shade
- Images Courtesy of Dr. Paulo Soares



Transcend Composite UB Shade
- Images Courtesy of Dr. Andrea Franzò



Transcend Composite UB Shade
- Images Courtesy of Dr. Adriano F. Lima



Transcend Composite UB Shade
- Images Courtesy of Dr. James Wright



Transcend Composite UB Shade
- Images Courtesy of Dr. Clarence Tam



Transcend Composite UB Shade
- Images Courtesy of Dr. Jaleena Fischer-Jessop



Layered Restorations

In the cases shown below, multiple shades were layered.

Transcend Composite Layered: A2D, EN, EW, UB
- Images Courtesy of Dr. Tommaso Mascetti



Transcend Composite Layered: B1D, A2D, EN, EW
- Images Courtesy of Dr. Rafael Calixto



Transcend Composite Layered: B1D and EW
- Images Courtesy of Dr. Albano Bueno



Transcend Composite Layered: B1D, EW, UB
- Images Courtesy of Dr. Jaleena Fischer-Jessop



Transcend Composite Layered: B1D, EN, UB Shades
- Images Courtesy of Dr. Paulo Soares





DR. RAFAEL BEOLCHI

Dr. Rafael Beolchi graduated from the University of São Paulo, Brazil, in 2000. He has maintained a private practice since 2001, working mainly in esthetic dentistry and oral rehabilitation. In 2009, he received a master's degree in Biomaterials. He lectures around the world, mainly on the advanced handling of dental materials with an easy step-by-step approach. He now lives in Portugal where he is pursuing his second master's degree.



1. Before: Failed composite restorations on both lower molars.



2. DermaDam™ rubber dam isolation after removal of the old restorations.



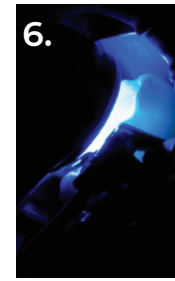
3. Trident® V3 sectional matrix system being placed along with the anatomical wedges and rings.



4. Ultra-Etch™ etchant selectively placed on the enamel margins. Peak™ SE Primer was used as the self-etching primer on dentin and Peak™ Universal Bond adhesive was used as the bonding agent.



5. Scrubbing motion of Peak Universal Bond adhesive after Peak SE Primer application.



6. Peak Universal Bond adhesive being light cured by VALO™ Grand curing light.



7. PermaFlo™ flowable composite (A2 shade) was applied over the cavity angles and on the proximal boxes to reduce stress during polymerization and to ensure a total and complete seal of the restoration margins, respectively. It also helps in avoiding air bubbles.



8. After curing PermaFlo flowable composite, Transcend™ composite Universal Body shade was used to create the missing mesial and distal walls.



9. Transcend composite Universal Body shade applied over the lingual side of the first lower molar, already sculpted and light cured.



11. Both restorations finalized. Note the integration of the single Universal Body shade used with the surrounding tooth structure.



11. Final aspect of the restorations after occlusal adjustments and polishing. Note how the composite blends with the surrounding tooth structures and gives an esthetic and natural appearance on the proximal boxes without the use of any blocker shades.

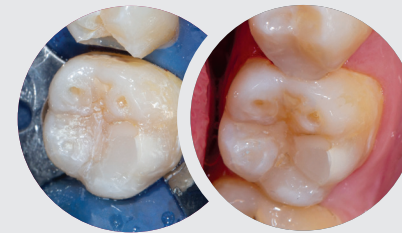


12. Buccal view of the finalized restorations. Note the integration of the Transcend composite Universal Body shade and tooth structure on the buccal wall of the first lower molar.



DR. BRETT RICHINS

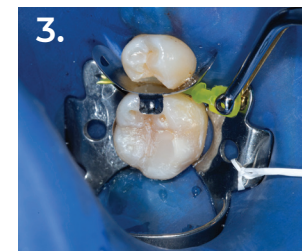
After earning his bachelor's degree in biomedical engineering from the University of Utah in 2008, Dr. Richins received his doctorate from the University of Pittsburgh School of Dental Medicine in 2012. He is a member of the Academy of General Dentistry, the American Dental Association, and the Utah Dental Association. He continues to pursue his education and frequently attends advanced courses that cover topics such as Endodontics, Implantology, Cosmetic Dentistry, Oral Pathology, TMJ, Sleep Apnea, and much more. He has also done humanitarian dentistry in underserved areas of Jamaica, Vanuatu, and Appalachia.



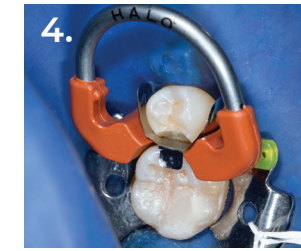
1. DO preparation on tooth #29 (mandibular right second premolar) with caries removed.



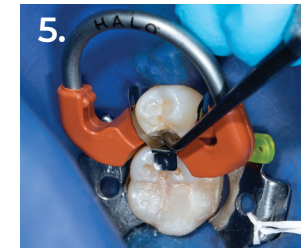
2. 4.5 mm Halo™ band placed using Halo tweezers to hold the occlusal tab.



3. Small Halo wedge placed from the buccal using Halo tweezers.



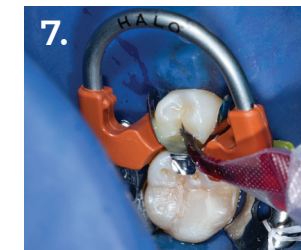
4. Halo universal ring in place. Ready to begin restoration.



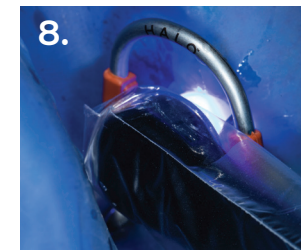
5. Check adaptation of band. Burnishing is typically not required but can be done if needed in challenging cases to ensure an adequate proximal contact.



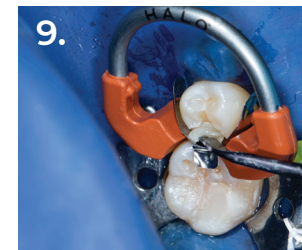
6. Ultra-Etch™ etchant applied for 15 seconds on dentin and cut enamel.



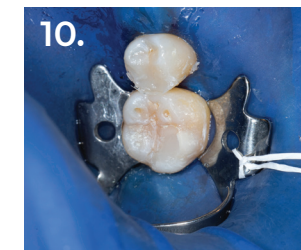
7. Peak™ Universal Bond adhesive scrubbed into dentin and painted onto enamel for 10 seconds using Inspiral™ Brush tip.



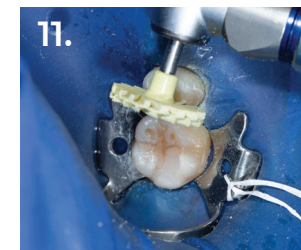
8. Thinned/dried for 10 seconds using ¼ to ½ air pressure. Preparation appeared shiny, and air thinning no longer produced visible movement of the resin. Cured for 10 seconds using the VALO™ X curing light.



9. Placed Transcend™ composite Universal Body shade in layers 2 mm or less.



10. Minimal finishing required after immediate removal of Halo matrix system.



11. Finished with the Jiffy™ Natural polishing line.



12. Completed restoration with anatomical contact and sole use of Transcend composite's Universal Body shade.





DR. RAFAEL CALIXTO

Professor Rafael Calixto holds a master's of science (MSc) and doctorate of philosophy (PhD) in restorative dentistry from UNESP in São Paulo, Brazil. He has authored the book *Direct-Composite Veneers* and runs a private practice in São Paulo, Brazil. Dr. Calixto is an international speaker, teaches the Dentistry Specialization course at FAEPO in São Paulo, and coordinates the Specialization Course in Dentistry at the Brazil Association of Dentistry in Alagoas, Brazil. Dr. Calixto also teaches the Master of Rehabilitation course at ADA in Madrid/Spain and coordinates the Specialization Course in Dentistry at ECO-Academy in São Paulo.



1. Central incisors presenting stains and loss of gloss. Composite resin veneers will be replaced to obtain better esthetic appearance.



5. After placement of Peak™ Universal Bond adhesive, lingual shell was created with Transcend™ composite Enamel Neutral shade.



9. Ultrapak cord removed and teeth polished with Jiffy™ Natural Medium spiral polishing wheel.



2. Ultrapak™ 000 retraction cord is placed to provide optimal tissue displacement and control sulcular fluid.



6. In order to balance the different substrate colors, a lighter dentin shade (B1D) was placed on the darker tooth (#8), and a darker dentin shade (A2D) was placed on tooth #9.



10. Teeth then polished with Jiffy™ Natural Fine spiral polishing wheel.



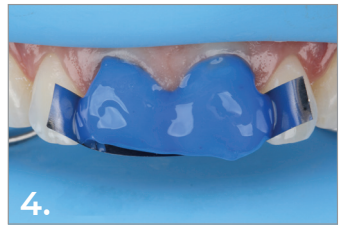
3. PVS matrix is fitted to tooth preparation.



7. Transcend composite Enamel White was placed as the final layer, at first on the facial surface of tooth #9, and cured with VALO™ curing light.



11. Final polish with Jiffy™ HiShine cup to create a highly polished finish on the cervical buccal area.



4. After isolation, Ultra-Etch™ 35% phosphoric acid etchant is applied for 15 seconds on cut enamel.



8. Transcend composite Enamel White was placed as the final layer on tooth #8, the proximal contacts were reproduced with the same composite, then cured.

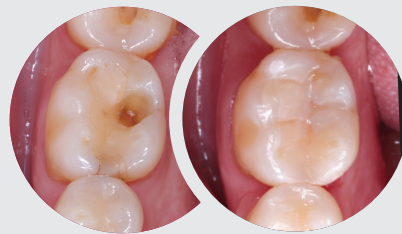


12. Final restoration results.



DR. JOSÉ CARLOS GARÓFALO

Dr. Garófaló is a specialist in restorative and esthetic dentistry and has a master's of science in dentistry from the University of São Paulo FOU SP. He is the former Director of the Department of Dentistry of the School of Professional Development of the São Paulo Association of Dental Surgeons and Dr. Garófaló has also lectured as a professor at International Congresses and Symposia in Brazil and Latin America. Previously the Scientific Editor of the Revista Estética-APCD of São Paulo, he has also written articles, co-authored books, and contributed chapters in publications such as: *Laminated Veneers, Inlays-Onlays, Atlas of Laminated Veneers, and Dental Sculpture Using the Geometric Method.*



1. Previous restoration failed and fell out of patient's mouth.



4. Ultra-Etch™ 35% phosphoric acid etchant is used with a selective etch technique for 15 seconds on cut enamel. Peak™ SE Primer is used to etch dentin for 20 seconds.



7. Tooth is restored in 2 mm layers using Transcend™ composite Universal Body shade.



2. Tooth is isolated using a rubber dam, tooth is prepared, Halo™ sectional matrix band is placed, and Halo™ disposable anatomical large wedge is placed.



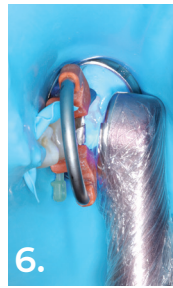
5. Application of universal adhesive.



8. Before removal of rubber dam, finishing and polishing completed with Jiffy™ points and Jiffy™ Natural composite polishers.



3. Halo™ universal matrix ring is placed.



6. Adhesive is cured for 10 seconds with VALO™ Grand curing light.



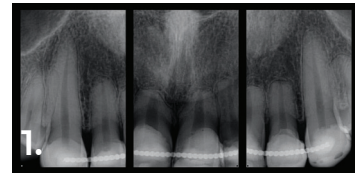
9. After.





Dr. Jaleena Fischer-Jessop

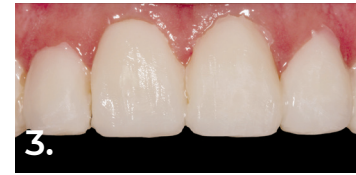
Dr. Jaleena Fischer-Jessop graduated with honors in Oral Surgery from Loma Linda University School of Dentistry in 2002. She later completed a two-year certification for straight wire orthodontics from the American Orthodontic Society. She served on the Utah Dental Association board for two years and has served on the national advisory board at the University of Utah Dental School for several years. She also currently works as an adjunct professor at the University of Utah Dental School. Dr. Fischer-Jessop owns a private dental practice where she has worked for 20 years with an emphasis on esthetic and minimally invasive dentistry.



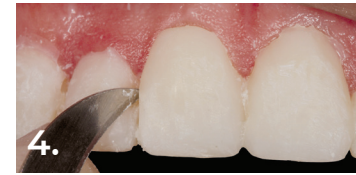
1. Female patient in her 20s, history of trauma. Opted to not move forward with implants as teeth were stable.



2. Patient had esthetic concerns and was financially challenged. Because of the history of trauma, we opted to do no-prep direct-bonded composite veneers.



3. Placed Transcend composite B1D shade 2/3 up from incisal edge, thinning towards the gingival. Universal Body (UB) shade was placed against the gingival 1/3 and final layers were completed with Enamel White (EW) shade and a small amount of UB at gingival margin for blending.



4. Used a #12 blade and separating saw to separate the veneers.



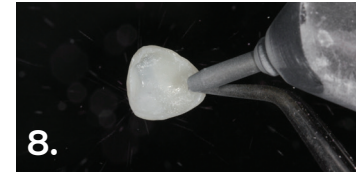
5. Careful removal of the composite veneers.



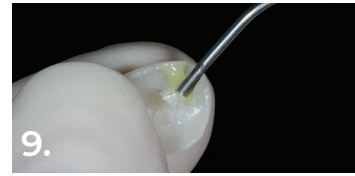
6. Used a fine mosquito needle diamond bur for contouring of the margins.



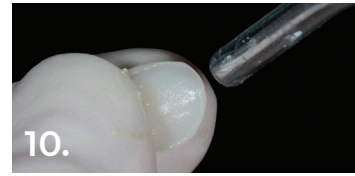
7. Composite veneers contoured and polished using the Jiffy™ Natural polishing kit and ready-to-cement procedure.



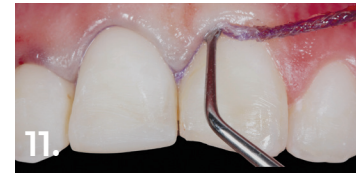
8. Air abrasion of the internal surface of the veneer (Ultra-Etch™ 35% phosphoric acid can also be used).



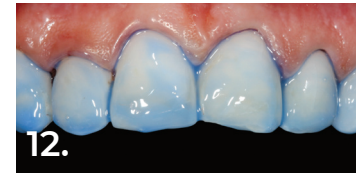
9. Coated internal surface with Peak™ Universal Bond adhesive.



10. Air thinned Peak Universal Bond adhesive with air and suction. Light cured with the VALO™ X curing light for 3 seconds on Xtra Power mode.



11. Packed Ultrapak™ knitted cord Size #0 into the gingival sulcus.



12. Performed a 30-second etch using Ultra-Etch 35% phosphoric acid on uncut enamel.



13. Applied Peak Universal Bond adhesive and thinned with air and suction.



14. Cemented with PermaShade™ LC luting resin, Translucent shade.



15. Final cementation results.



16. To develop the facial anatomy, football diamond and long, thin diamond burs were used. A lobed diamond bur was used to create the lines of Retzius (SR lines). The initial polishing was completed with Jiffy™ Natural polishers, then the final luster was achieved with Ultradent™ Diamond Polish Mint and the Jiffy™ Goat Hair Brush to not remove the tertiary anatomy.

"Patient originally had thick enamel with rounded tooth contours. Her upper anterior teeth showed discoloration due to trauma. I wanted to mask the underlying color so the teeth more closely matched her lower anteriors. Shades B1D and Enamel White (EW) were used to lighten the appearance of the teeth. The Universal Body (UB) shade was then used to ensure the margin blended naturally into the cervical areas."
–Dr. Jaleena Fischer-Jessop



Ordering Information

Universal Body Shade



4733 - Transcend **UB Syringe 1pk**
1 x 4 g syringe Universal Body shade

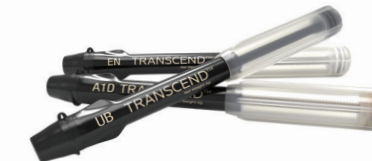
4734 - Transcend **UB Syringe 4pk**
4 x 4 g syringes Universal Body shade



4757 - Transcend **UB Singles 1pk**
10 x 0.2 g singles Universal Body shade

4817 - Transcend **UB Singles 4pk**
40 x 0.2 g singles Universal Body shade

Complementary Shades



Transcend **Syringe 1pk**
4 g syringe

Dentin	1pk
A1D	4727
A2D	4728
A3D	4729
B1D	4730

Enamel	1pk
EN	4731
EW	4732



Transcend **Singles 1pk**
10 x 0.2 g singles

Dentin	1pk
A1D	4744
A2D	4745
A3D	4746
B1D	4747

Enamel	1pk
EN	4748
EW	4749



4726 - Transcend **Syringe Intro Kit**
1 x 4 g syringe of each shade:
A1D, A2D, A3D, B1D, EN, EW, UB



4814 - Transcend **Singles Intro Kit**
10 x 0.2 g singles of each shade:
A1D, A2D, A3D, B1D, EN, EW, UB

"Transcend composite redefines the efficacy of new-generation dental composites; offering excellent ease of use, predictable outcomes, and an optimized selection of masses, enabling clinicians to achieve high-quality esthetic restorations with greater efficiency."

Dr. Tommaso Mascetti



"Transcend aims to redefine the supercomposite market with a remarkable composite that in itself exudes beauty and simplicity with a profound chameleon effect, in many cases obviating the need for an underlying shade opaquer, even in stained amalgam replacement cases. The compressive strength is top tier and is rated at 450 MPa, which incidentally exceeds that of lithium disilicate. The flexural strength is similar to dentin and is rated at 156 MPa, with a similar modulus of elasticity. This supercomposite is geared well for biomimetic dentistry."

Dr. Clarence Tam



"Transcend has been an exciting addition to my daily clinical practice. We all want our dentistry to look as natural and as esthetic as possible while providing high-quality, long-lasting results. Transcend makes it quick and easy to match the shade for my patients. Transcend not only improves the final result but it also saves time and reduces stress because I can feel confident my shade match is going to be great!"

Dr. Brett Richins



"Transcend is a high-quality, no-compromise material that is a true universal shade-matching composite resin. It will become the workhorse product for your posterior composites, Class Vs, and many anterior restorations. It provides a high-quality result in a timely and cost-effective manner with excellent shade matching."

Dr. Mark Pettit



"Transcend composite delivers what it promises: a truly universal body shade that does not require a blocker on deeper restorations. More than that, it provides a lot of help in our everyday practice. It's like color matching on auto-mode."

Dr. Rafael Beolchi



"Transcend composite has quickly become a go-to product in our office. Its Universal Body shade is so versatile. I love the chameleon effect that matches beautifully for posteriors, Class IIIs, and Class Vs. For more esthetically demanding anterior cases like Class IVs, I utilize the dentin and enamel shades and do a simple layering technique with starburst beveling and get invisible restorations. The polish is amazing too...so fast with a high gloss that lasts."

Dr. Susan McMahon



"The Universal Body shade has amazing chameleon-like properties and doesn't require a blocker. I use it for the vast majority of my fillings. For those demanding cosmetic situations, the simple dentin and enamel shades allow for layering and give incredible results. Another home run product for Ultradent."

Dr. Gary Findley



"Direct composite veneers are a challenge to match the color of natural teeth. Several restorative techniques have been proposed for stratification in the anterior sector. A simplified stratification can be applied with very satisfactory results, but to do this, it is necessary to know the translucency concept of the materials and layer's thickness. Furthermore, a composite resin with excellent optical characteristics is required. Transcend composite is a simplified system in terms of the number of shades available, but those shades and polishing properties allow for excellent results through fast and efficient layering."

Dr. Rafael Calixto



"The clinicians who know me, know I am a faithful Vit-I-essence™ user. I like to place multiple layers for great esthetics whether I am restoring anterior or posterior teeth. However, there are times when I have felt it would be great to be able to just place one shade and not feel as though I have compromised the case. Transcend has accomplished this for me. I have been amazed at the beautiful case outcomes with just a single shade. I like having the simple 6 additional shade offerings for those cases where layering may be able to improve the result. With the Universal Body shade plus the dentin and enamel shades, I can cover about 90 percent of my cases."

Dr. Jaleena Fischer-Jessop



Your complete system for **QUALITY RESTORATIONS**

Ultradent's Restorative Solution brings together some of our most-loved products to help you create long-lasting, beautiful restorations.



RESTORATIVE SOLUTION

ULTRADENT.COM/RESTORATIVE

HALO
SECTIONAL MATRIX SYSTEM

ULTRA-ETCH

PEAK
UNIVERSAL ADHESIVE SYSTEM

TRANSCEND
UNIVERSAL COMPOSITE

VALO

Jiffy natural

ULTRADENT