

***Cementation Options for
IPS Empress® CAD***

Multilink® Automix
Variolink® Veneer

Placement

- **Conventional**

- If the preparation has adequate resistance and retention form, non-adhesive cements may be used.
 - glass ionomers, resin-modified glass ionomers, one-step resin (e.g. RelyX Unicem), zinc phosphate

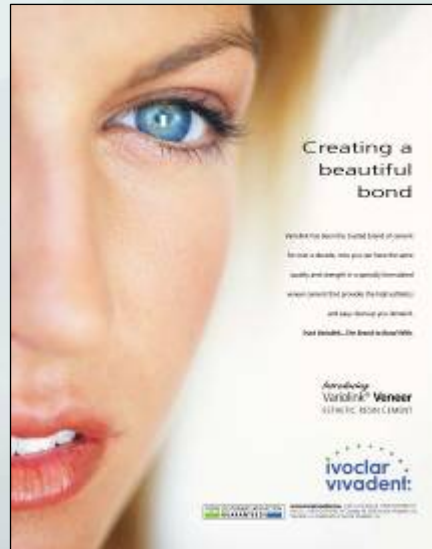
- **Adhesive**

- If adhesion to the tooth structure is required or preferred or for enhanced esthetic options.
 - Total Etch Technique
 - **Variolink II, Variolink Veneer**
 - Self Etch Technique
 - **Multilink Automix**



Variolink II

- Total etch
- Universal Esthetic
- Base & catalyst
- Light-cure, Dual-cure



Variolink Veneer

- Total etch
- Anterior Priority
- Base only
- Light-cure



Multilink Automix

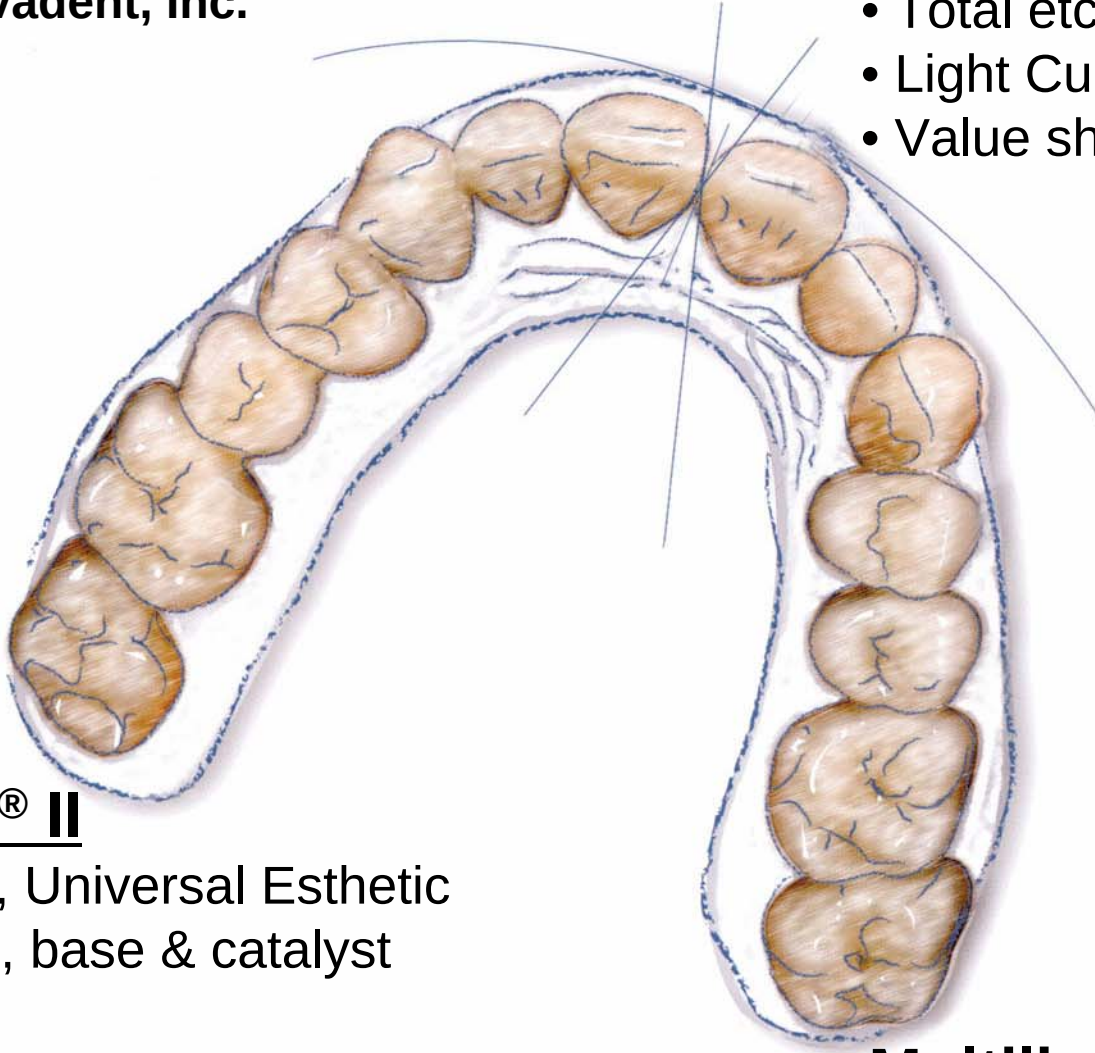
- Self-etch
- Universal
- Base & catalyst (auto)
- Dual-cure

Adhesive Cementation Systems

by Ivoclar Vivadent, Inc.

Variolink® Veneer

- Total etch, Anterior Esthetic
- Light Cure, base only
- Value shading



Variolink® II

- Total etch, Universal Esthetic
- Dual Cure, base & catalyst
- Strong

Multilink® Automix

- Self-etch, Universal
- Self or Dual Cure, automix
- Fast, easy, strong



Variolink® Veneer

ESTHETIC RESIN CEMENT

ivoclar
vivadent®



Variolink Veneer



Variolink Veneer is a light-curing, esthetic resin cement developed specifically for anterior restorations.

The combination of Variolink Veneer's simple & logical value shade system and its microfill-based chemistry allows dental professionals to quickly achieve highly esthetic results.





Variolink Veneer Indications

Variolink Veneer is indicated for the adhesive, light-curing cementation of ceramic and composite restorations with a low thickness (< 2.0 mm) and a high degree of translucency.

Veneers



Inlays



Onlays





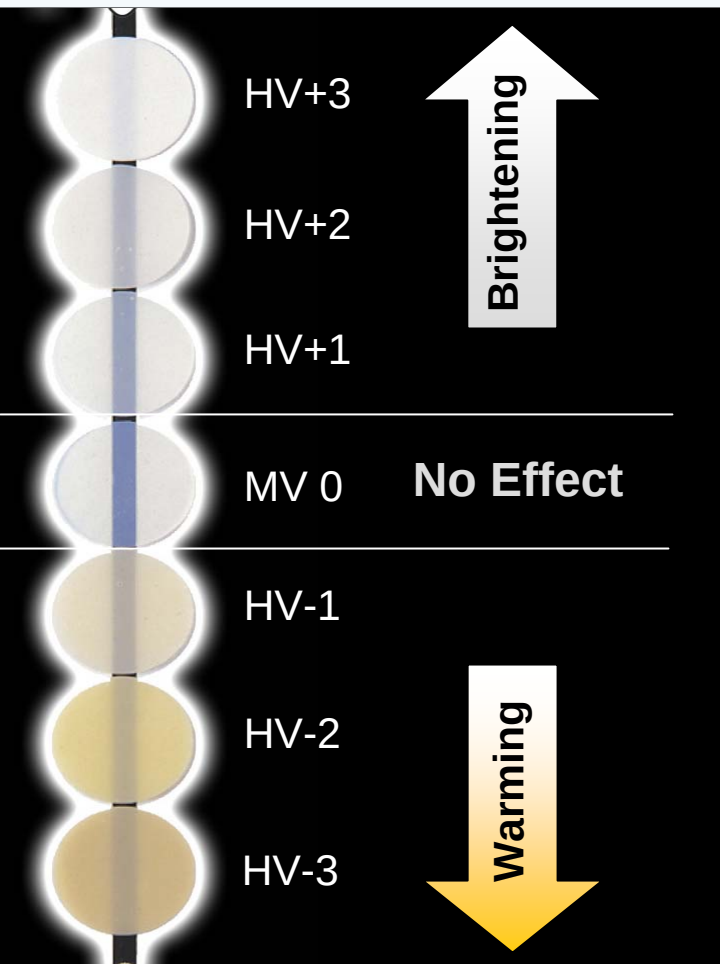
Main Attributes

- High level esthetics
- Fast & easy clean-up
- Simple “value” shading system
- Long-term shade stability
- Low wear
- High bond strengths





Value Shading System



Variolink Veneer is available in 7 “value” shades. This logical shade sequence is based on “brightness” in lieu of “color”.

The various “value” shades allow dental professionals to “warm” or “brighten” the appearance of the final restoration.

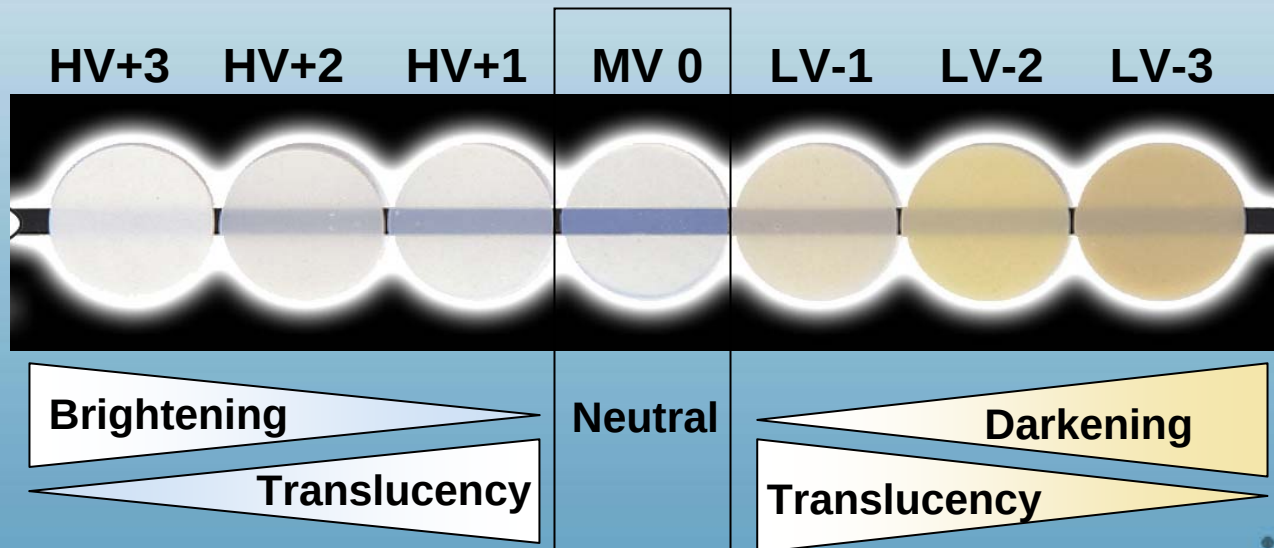
- No effect (Medium Value)
- Gradual brightening (High Value +1, +2, +3)
- Gradual darkening (Low Value -1, -2, -3)



Value Shading System

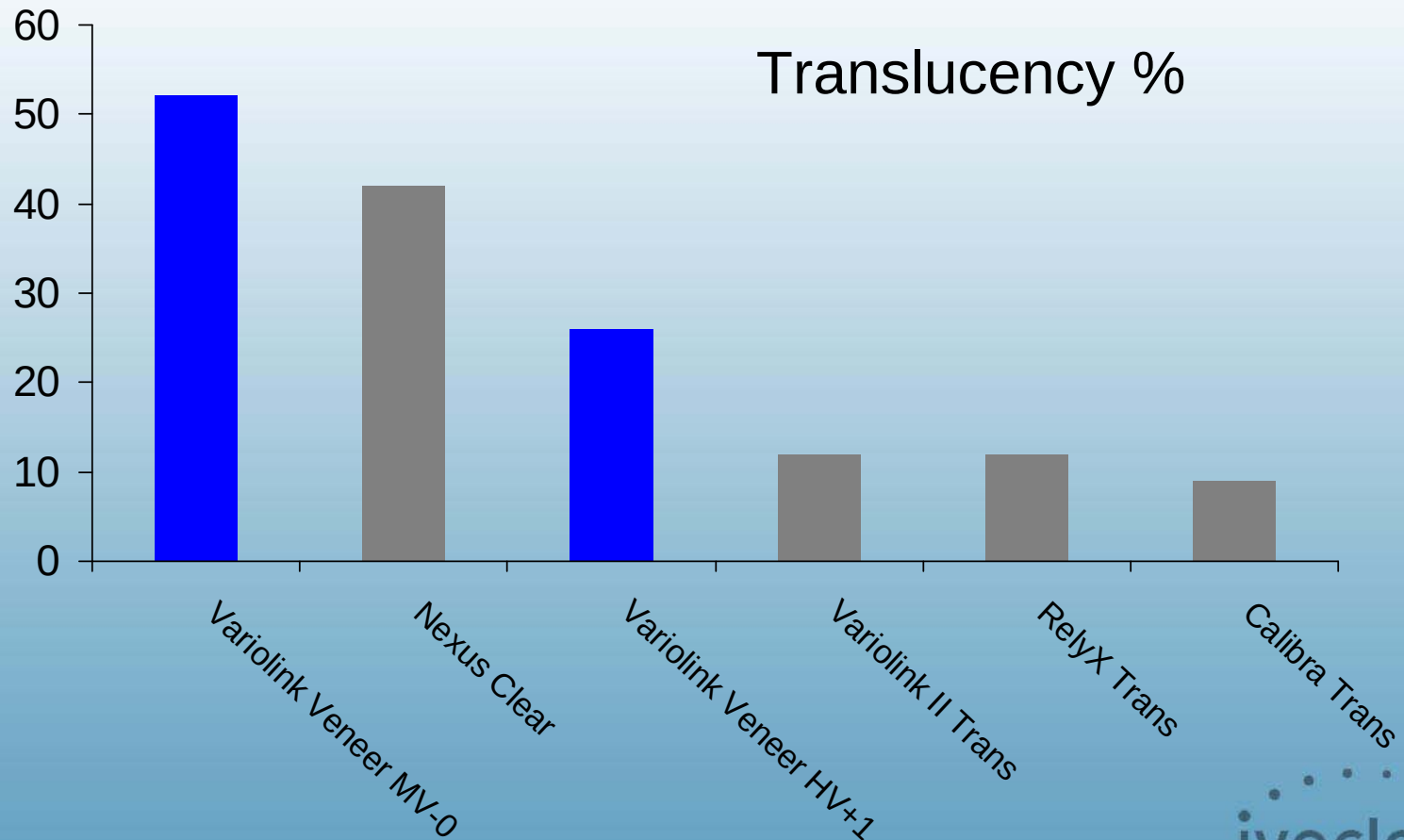
As the Value effects increase (e.g. “brightening” or “warming”) from (+1 $\Rightarrow$ +3 or -1 $\Rightarrow$ -3), translucency decreases.

Medium Value (MV 0) offers a neutral effect and the highest level of translucency.





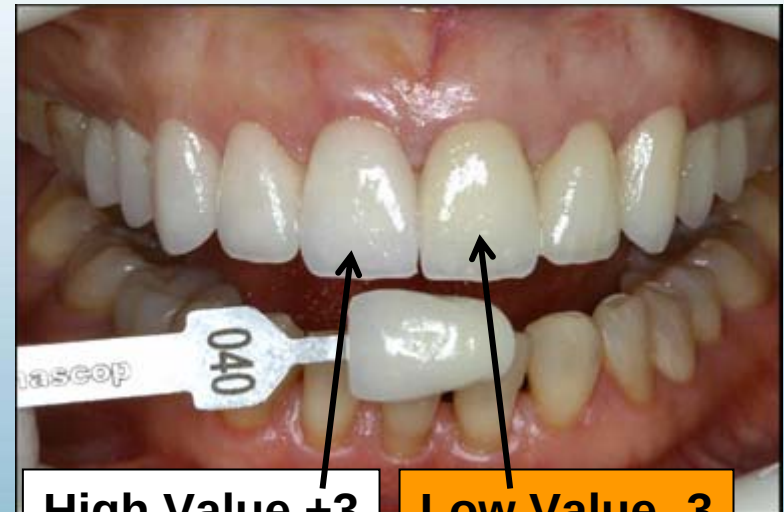
Value Shading System





Value Shading System

Try-in and Shade Preview



High Value +3

Low Value -3

Water-soluble try-in pastes





Long Term Shade Stability



The pure light-curing initiator system does NOT contain any self-cure amines as compared to dual-cure cementation systems.

The amine-free initiator system provides Variolink Veneer with long-term, color stability and prevents shade shifting or discoloration.



Fast, easy clean-up

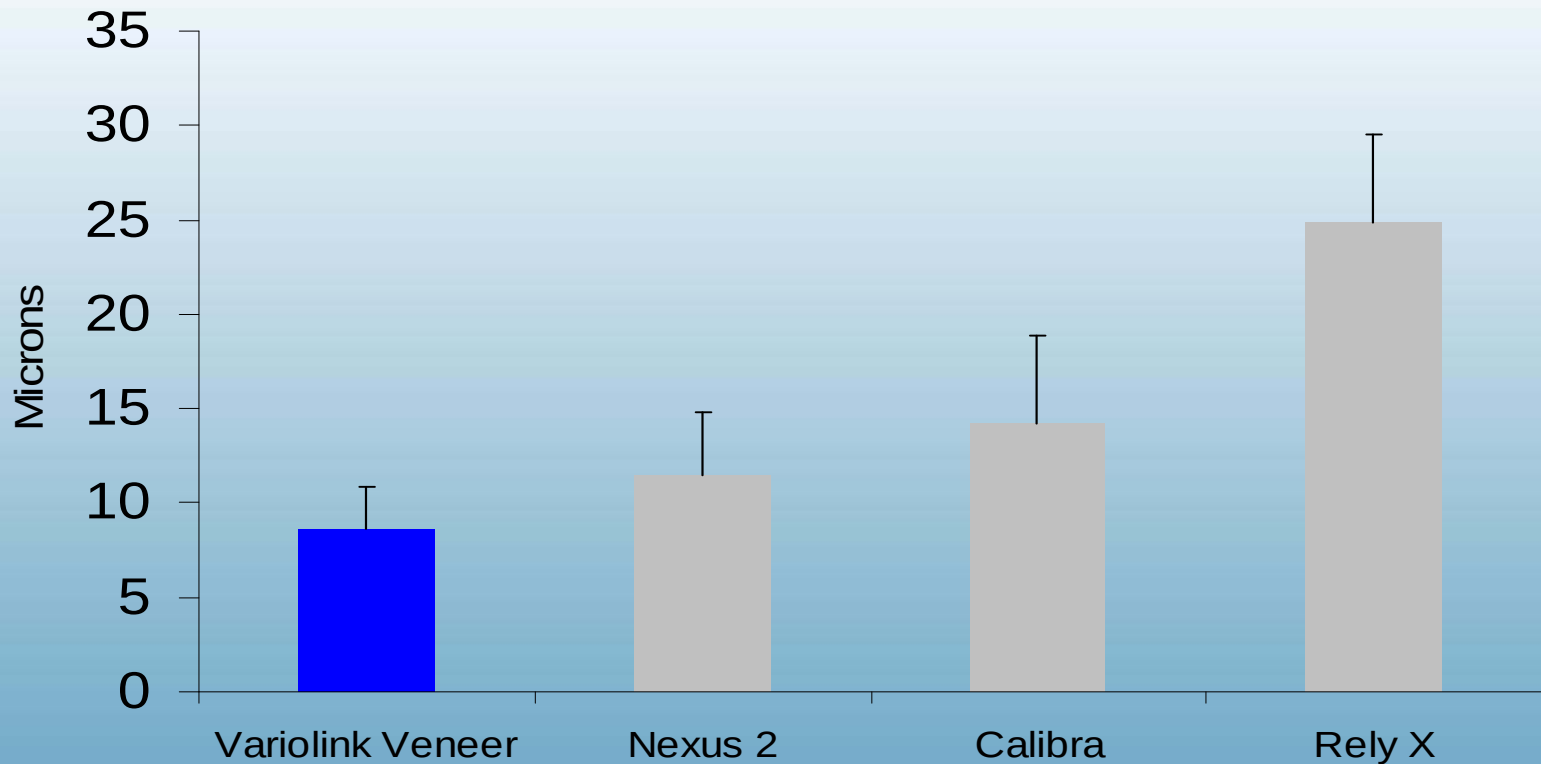


Variolink Veneer's ratio of modulus of elasticity and flexural strengths has been optimized allowing for faster & easier removal of excess cement.



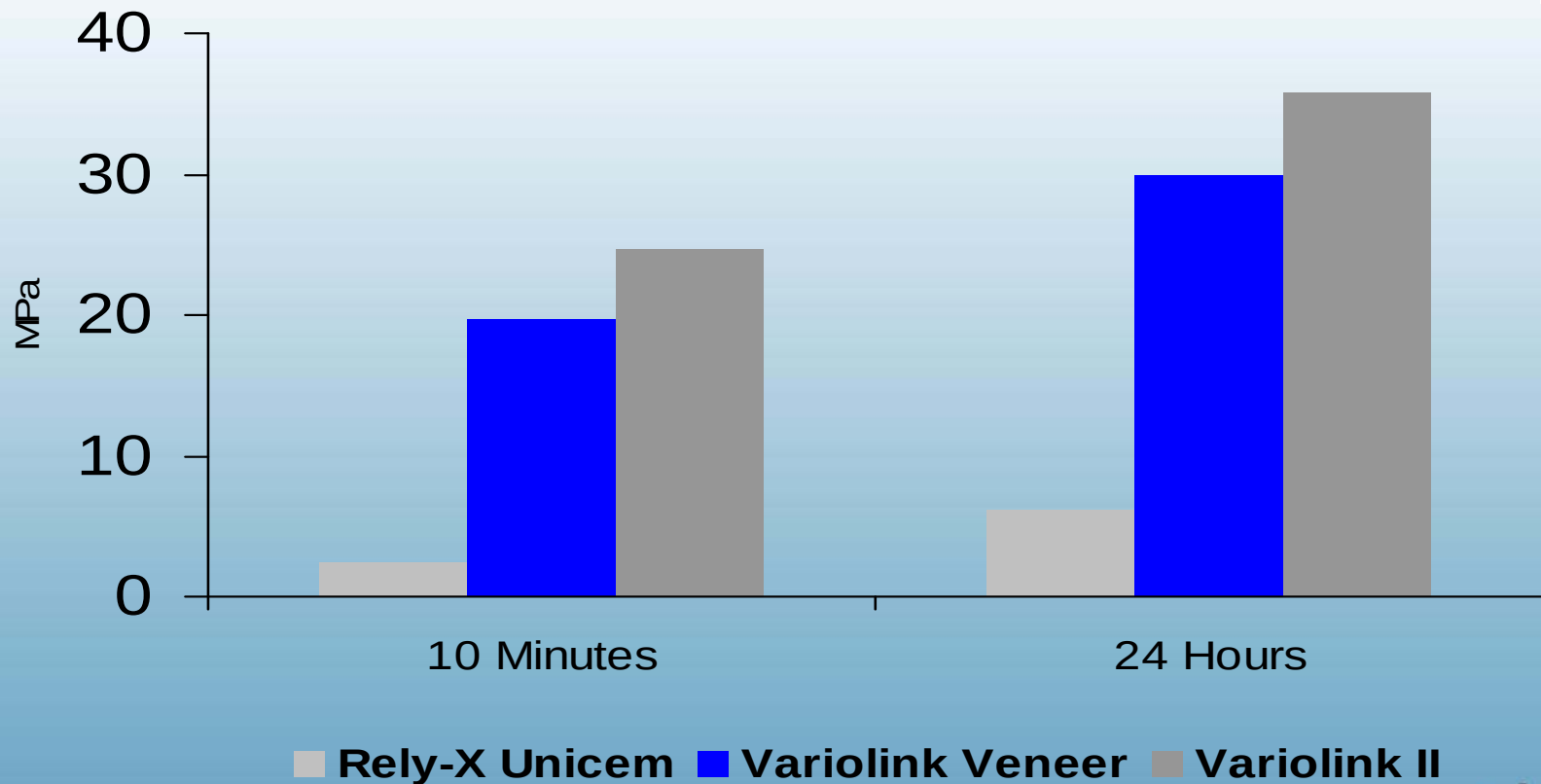
Low Wear

The microfill chemistry offers lower wear rates for long-lasting performance.





Bond Strengths





Radiopacity

- NOT Radiopaque

Highly Translucent Shades

- MV 0
- HV+1

- Radiopaque (200% AI)

Opaque shades / Higher chroma

- LV-1
- LV-2
- LV-3
- HV+2
- HV+3



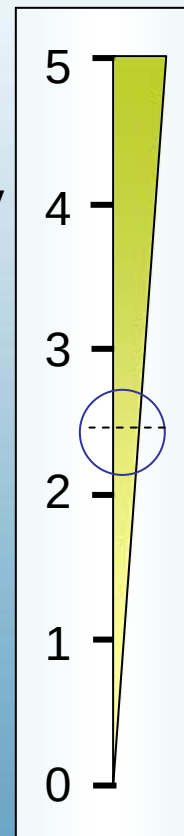
Consistency / Viscosity



high viscosity



low viscosity



Variolink Ultra

Variolink II Cat./high visc.

Variolink II Base

Variolink II Cat./low visc.
and **Variolink Veneer**

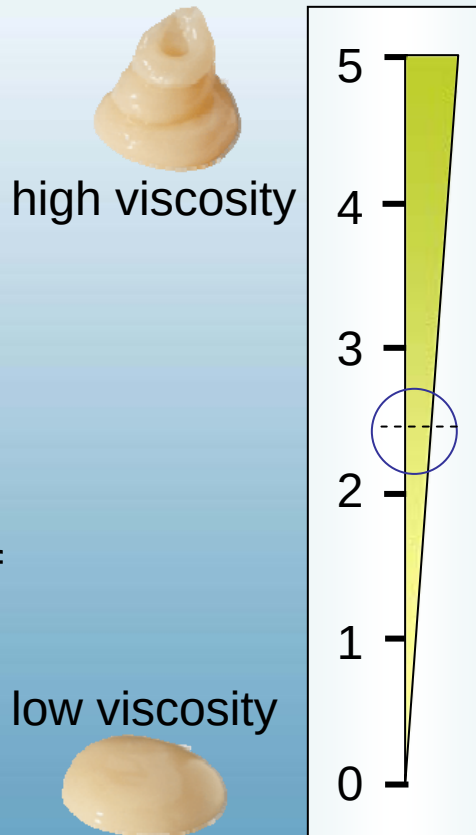
Multilink Automix



Consistency / Viscosity

Variolink Veneer has a viscosity similar to that of Variolink II - Low Viscosity Catalyst

A low viscosity / consistency reduces the risk of fractures when inserting restorations of which have a low thickness.



Variolink Ultra

Variolink II Cat./high visc.

Variolink II Base

Variolink II Cat./low visc.
and **Variolink Veneer**

Multilink Automix



Variolink® Veneer

E S T H E T I C R E S I N C E M E N T

Variolink Veneer has been developed for situations in which maximum esthetics in the anterior region, optimum shade stability and long-lasting clinical results are desired.

ivoclar
vivadent®



Primary Indication

Highly esthetic, purely light-curing cementation of all-ceramic veneers



Before



IPS Empress® Esthetic

The original system for highly esthetic and fully-anatomic restorations using the PRESS technique with more than 15 years of clinical success



Indication	Luting cement
Veneer	Variolink Veneer Variolink II
Inlay / Onlay	Variolink Veneer Variolink II Multilink Automix
Crown	Variolink II Multilink Automix



IPS e.max®

The new IPS e.max all-ceramic system includes high esthetic and high strength materials both for the PRESS and CAD/CAM technologies



Indication	Luting cement
IPS e.max Press	Variolink II Multilink Automix
IPS e.max CAD	Variolink II Multilink Automix
IPS e.max ZirCAD	Multilink Automix
IPS e.max Ceram (Veneers)	Variolink Veneer Variolink II



IPS Empress® CAD

IPS Empress CAD is a Leucite-Glass-Ceramic block designed for use with the current CAD/CAM systems.



Indication	Luting cement
Veneer	Variolink Veneer Variolink II
Inlay / Onlay	Variolink Veneer Variolink II Multilink Automix
Crown	Variolink II Multilink Automix



Clinical Case Presentation

Clinical procedure provided by
Dr. David Hornbrook



Preoperative views



Preparation



Temporary restorations

**Systemp®.c&b Plus
temporary materials**





Veneers on the model



Removal of temporary restorations



Try-in of the veneers



Try-in of the veneers using Try-In pastes
High Value +3 (left) and Low Value -3 (right)



Variolink® Veneer
water-soluble try-in pastes



Shade simulation with Try-In shades
Try-In pastes HV+3 (left) and LV-3 (right)



Etch using 37% Phosphoric acid



Rinse and air dry



Total Etch



Application of bonding agent



Air dry and light-cure



Excite® single-component
dentin/enamel adhesive

bluephase® LED curing light





Seat veneers



Tack into place by light-curing for
2-3 seconds each

bluephase® LED curing light





"Wave" technique:
Cure excess for a short time (1-2 seconds) facial and lingual,
polymerizing cement to a "gel" consistency



Easy removal of excess cement



Application of oxygen-inhibitor to eliminate the air-inhibited layer after curing. (Optional)

Final cure



**Liquid Strip
oxygen-inhibitor**

bluephase® LED curing light





Removal of excess using a scaler



Finish using a finishing diamond



Completed Veneer Restorations



Pre-operative view



Post-operative view



Packaging & Delivery Forms



Assortment Kit



Contents:

- 7 – syringes Variolink Veneer
- 7 – syringes Variolink Veneer Try-in
- 1 – bottle Monobond-S, 5g
- 1 – syringe Liquid Strip, 2.5g
- 1 – syringe Total Etch, 2g
- 12 – Excite single-dose vessels
- Various accessories



Refills

Contents:

- 1 – syringe Variolink Veneer or
Variolink Veneer Try-in
- 5 – applicator tips



Refills are available in all 7 value shades;

High

HV+3

HV+2

HV+1

Medium

MV 0

Low

LV-3

LV-2

LV-1



Creating a beautiful bond

Variolink has been the trusted brand of cement for over a decade, now you can have the same quality and strength in a specially formulated veneer cement that provides the high esthetics and easy clean-up you demand.

Trust Variolink...The Brand to Bond With.

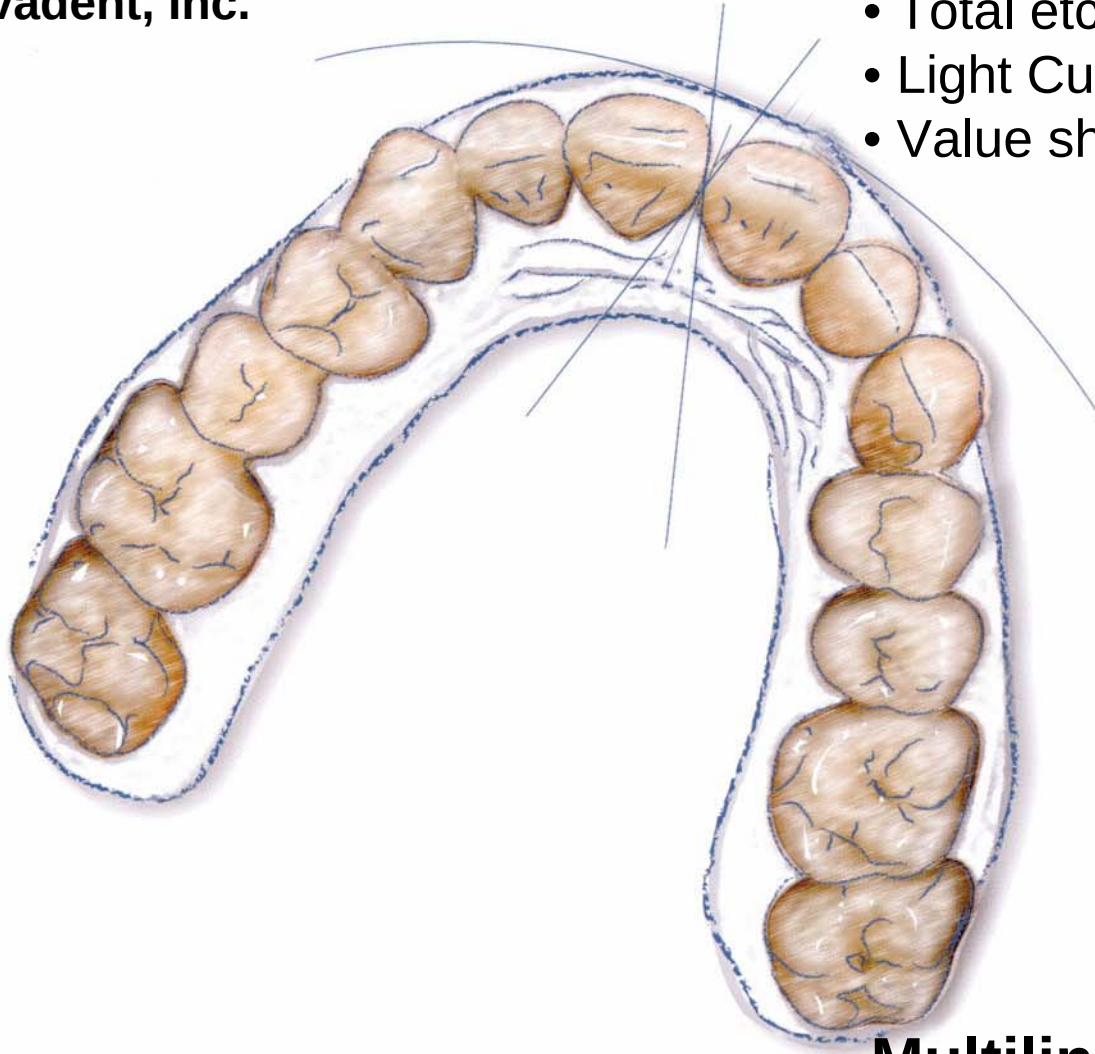
Variolink[®] Veneer

E S T H E T I C R E S I N C E M E N T

ivoclar
vivadent[®]

Adhesive Cementation Systems

by Ivoclar Vivadent, Inc.



Variolink® Veneer

- Total etch, Anterior Esthetic
- Light Cure, base only
- Value shading

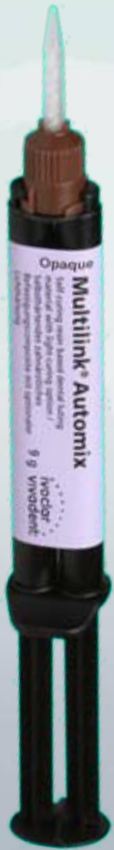
Multilink® Automix

- Self-etch, Universal
- Self or Dual Cure, automix
- Fast, easy, strong



**Put yourself in your patient's shoes,
wouldn't you want the strongest cement?**

Multilink® Automix is a self-etching paste-paste luting composite system for the universal cementation of indirect restorations.



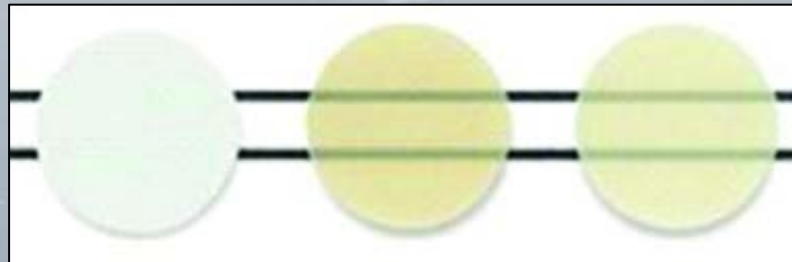
- Dual Cure
- High immediate strengths
- Low sensitivity (self-etch)
- High radiopacity
- Fast & easy to use
- Universal (all types of restorative materials)



Shades



Opaque, Yellow, Transparent



Adhesion Components

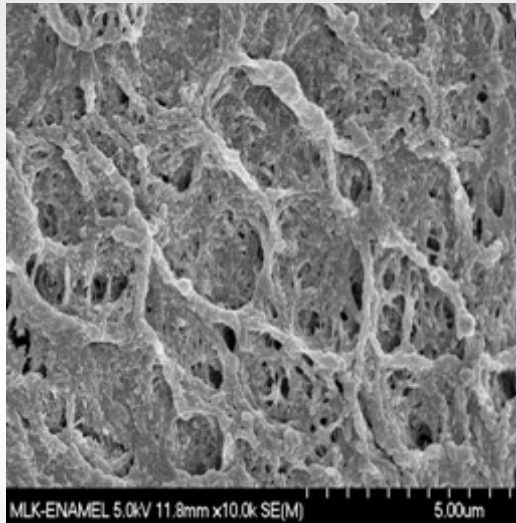
- **Multilink Automix** is the recommended cementation system for all e.max restorations*
 - High bond to tooth structure
 - Multilink A&B
 - High bond to glass ceramics
 - Monobond – S (silane)
 - High bond to zirconia
 - Metal/Zirconia Primer



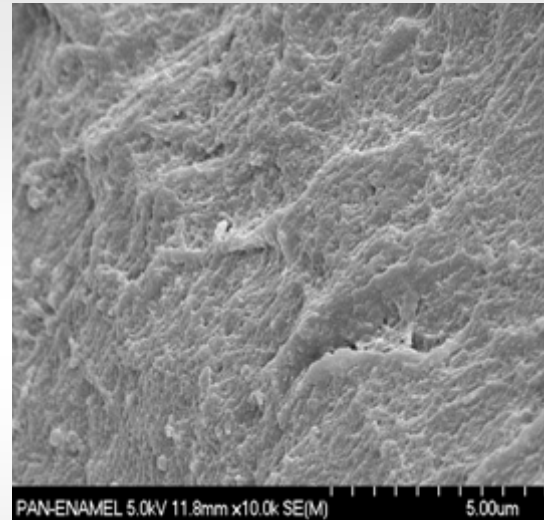




Enamel etching pattern



Multilink-Primer A/B
15 sec penetration



Panavia ED-Primer
60 sec penetration



After try-in, apply Monobond-S to internal glass ceramic surfaces, allow to dry and then apply Multilink Automix Cement.



After try-in, apply Metal/Zirconia Primer to internal zirconia surfaces, allow to dry and then apply Multilink Automix Cement

Differences in the Formulation



- Alcohol (Ethanol) & Water as solvent
- **Silane**
(= 3-methacryl-oxypentyl-trimethoxysilane)



- Dimethacrylate (Crosslinker)
- Organic solvents (Butanol-type)
- **MA-154** (phosphonic acid acrylate)

= Active Ingredient

Silicate-(SiO)-Ceramics in the Periodic System of Chemical Element i.e. ProCAD, IPS Empress (Silicate-Ceramics)

Non-Metallic
Elements



	I	II	IIb	IVb	Vb	Vib	VIIb	VIIIb	IB	IIB	III	IV	V	VI	VII	VIII		
1	1 H 1,007															2 He 4,002		
2	3 Li 6,941	4 Be 9,012																
3	11 Na 22,98	12 Mg 24,30																
4	19 K 39,09	20 Ca 40,07	21 Sc 44,95	22 Ti 47,88	23 V 50,94	24 Cr 51,99	25 Mn 54,93	26 Fe 55,84	27 Co 58,93	28 Ni 58,69	29 Cu 63,54	30 Zn 65,39	31 Ga 69,72	32 Ge 72,61	33 As 74,92	34 Se 78,96	35 Br 79,90	36 Kr 83,8
5	37 Rb 85,46	38 Sr 87,62	39 Y 88,90	40 Zr 91,22	41 Nb 92,90	42 Mo 95,94	43 Tc 98,90	44 Ru 101,0	45 Rh 102,9	46 Pd 106,4	47 Ag 107,8	48 Cd 112,4	49 In 114,8	50 Sn 118,7	51 Sb 121,7	52 Te 127,6	53 I 126,9	54 Xe 131,2
6	55 Cs 132,9	56 Ba 137,3		72 Hf 178,4	73 Ta 180,9	74 W 183,8	75 Re 186,2	76 Os 190,2	77 Ir 192,2	78 Pt 195,0	79 Au 196,9	80 Hg 200,5	81 Tl 204,3	82 Pb 207,2	83 Bi 208,9	84 Po 209	85 At 209,9	86 Rn 222,0
7	87 Fr 223,0	88 Ra 226,0		104 Rf 261,1	105 Db 262,1	106 Sg 263,1	107 Bh 262,1	108 Hs 265	109 Mt 266	110 Ds 269	111 Uuu 272	112 Uub 277	©2003 periodensystem.info					
	57 La 138,9	58 Ce 140,1	59 Pr 140,9	60 Nd 144,2	61 Pm 146,9	62 Sm 150,3	63 Eu 151,9	64 Gd 157,2	65 Tb 158,9	66 Dy 162,5	67 Ho 164,9	68 Er 167,2	69 Tm 168,9	70 Yb 173,0	71 Lu 174,9			
	89 Ac 227,0	90 Th 232,0	91 Pa 231,0	92 U 238,0	93 Np 237,0	94 Pu 244,0	95 Am 243,0	96 Cm 247,0	97 Bk 247,0	98 Cf 251,0	99 Es 252,0	100 Fm 257,0	101 Md 258,0	102 No 259,1	103 Lr 260,1			

Alloys in the Periodic System of Chemical Elements i.e. Gold-alloys,...

Gold, Silver,
Platin
= Precious metals

	I	II	IIIb	IVb	Vb	VIb	VIIb	VIIIb	IB	IIB	III	IV	V	VI	VII	VIII		
1	1 H 1,007															2 He 4,002		
2	3 Li 6,941	4 Be 9,012									5 B 10,81	6 C 12,01	7 N 14,00	8 O 15,99	9 F 18,99	10 Ne 20,17		
3	11 Na 22,98	12 Mg 24,30									13 Al 26,98	14 Si 28,08	15 P 30,97	16 S 32,06	17 Cl 35,45	18 Ar 39,94		
4	19 K 39,09	20 Ca 40,07	21 Sc 44,95	22 Ti 47,88	23 V 50,94	24 Cr 51,99	25 Mn 54,93	26 Fe 55,84	27 Co 58,93	28 Ni 58,69	29 Cu 63,54	30 Zn 65,39	31 Ga 69,72	32 Ge 72,61	33 As 74,92	34 Se 78,96	35 Br 79,90	36 Kr 83,8
5	37 Rb 85,46	38 Sr 87,62	39 Y 88,90	40 Zr 91,22	41 Nb 92,90	42 Mo 95,94	43 Tc 98,90	44 Ru 101,07	45 Rh 102,90	46 Pd 106,42	47 Ag 107,86	48 Cd 112,40	49 In 114,81	50 Sn 118,71	51 Sb 121,75	52 Te 127,60	53 I 126,90	54 Xe 131,29
6	55 Cs 132,90	56 Ba 137,32	57 La 138,90	58 Ce 140,12	59 Pr 140,90	60 Nd 144,24	61 Pm 144,91	62 Sm 150,35	63 Eu 151,96	64 Gd 157,25	65 Tb 158,92	66 Dy 162,50	67 Ho 164,93	68 Er 167,26	69 Tm 168,93	70 Yb 173,04	71 Lu 174,96	
7	87 Fr 223,02	88 Ra 226,02	104 Rf 261,10	105 Db 262,10	106 Sg 263,10	107 Bh 262,10	108 Hs 265	109 Mt 266	110 Ds 269	111 Uuu 272	112 Uub 277	113 Uut 284	114 Uuq 289	115 Uup 294	116 Uuh 299	117 Uus 304	118 Uuo 315	
			89 Ac 227,02	90 Th 232,03	91 Pa 231,03	92 U 238,02	93 Np 237,02	94 Pu 244,06	95 Am 243,06	96 Cm 247,07	97 Bk 247,07	98 Cf 251,08	99 Es 252,08	100 Fm 257,10	101 Md 258,10	102 No 259,10	103 Lr 260,10	

Metall-
Eigenschaften

Metall
Halbmetall
Nichtmetall

Aggregatzustand
bei 25°C

Feststoff
Flüssigkeit
Gas

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Zirconiumoxide (ZrO) in the Periodic System of Chemical Elements i.e. IPS e.max ZirCAD/ZirPress (ZrO-Ceramics)

Other Metallic
elements



	I	II	IIIb	IVb	Vb	VIb	VIIb	VIIIb	IB	IIB	III	IV	V	VI	VII	VIII		
1	1 H 1,007															2 He 4,002		
2	3 Li 6,941	4 Be 9,012									5 B 10,81	6 C 12,01	7 N 14,00	8 O 15,99	9 F 18,99	10 Ne 20,17		
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6	55 Cs 132,9	56 Ba 137,3	57 La 138,9	58 Ce 140,1	59 Pr 140,9	60 Nd 144,2	61 Pm 146,9	62 Sm 150,3	63 Eu 151,9	64 Gd 157,2	65 Tb 158,9	66 Dy 162,5	67 Ho 164,9	68 Er 167,2	69 Tm 168,9	70 Yb 173,0	71 Lu 174,9	
7	87 Fr 223,0	88 Ra 226,0	104 Rf 261,1	105 Db 262,1	106 Sg 263,1	107 Bh 262,1	108 Hs 265	109 Mt 266	110 Ds 269	111 Uuu 272	112 Uub 277	113 Uut 284	114 Uuq 289	115 Uup 294	116 Uuh 299	117 Uus 304	118 Uuo 315	
	89 Ac 227,0	90 Th 232,0	91 Pa 231,0	92 U 238,0	93 Np 237,0	94 Pu 244,0	95 Am 243,0	96 Cm 247,0	97 Bk 247,0	98 Cf 251,0	99 Es 252,0	100 Fm 257,0	101 Md 258,0	102 No 259,1	103 Lr 260,1			

Metall- ■ Metall
Eigenschaften ■ Halbmetall
□ Nichtmetall

Aggregatzustand bei 25°C □ Feststoff
■ Flüssigkeit
■ Gas

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Dr. Ed Lowe





Dr. Ed Lowe

Dental Economics Reviews

“What you get is very high bonding values in a short time with outstanding marginal integrity.”

“Forget about sensitivity issues –
there is no sensitivity!”

“This is a great cement that is strong, fast, easy and universal.”

Dr. Joe Blaes
Pearls for Your Practice
September 2005

The Dental Advisor +++++

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THE DENTAL ADVISOR

"Improved Patient Care Through Research"

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EDITORIAL EVALUATION

Editors' Comments

- "Cement is very easy to use."
- "The viscosity of the cement is low enough to allow easy seating of restorations."
- "Transparent shade blends well with ceramic inlays."
- "Provide an angled intraoral tip for placement of cement directly into joint or inlay preparations."
- "Provide more mixing tips."
- "Include silane in the kit."

Rating

Excellent +++++
Very Good ++++
Good +++

Multilink Automix +++++

Ivoclar Vivadent
800.533.6825 • 716.693.2285
www.ivoclarvivadent.us.com

Description
Multilink Automix is a dual-cured, multipurpose resin-based dental cement with a self-curing and self-etching primer. Suggested applications for **Multilink** include cementation of indirect restorations made of metal, metal-ceramic, all-ceramic (zirconia and aluminum oxide), and fiber-reinforced composite. The use of a metal primer is recommended as a coupling agent to achieve a stronger bond to sandblasted precious and non-precious alloys. **Multilink** is available in three shades with different degrees of translucency: transparent (high translucency), yellow (high translucency), and opaque (low translucency). The System Pack includes a 9-g **Multilink Automix** syringe, **Multilink Primer A & B**, **Metal Primer**, 15 mixing tips, and accessories. Fourteen editors evaluated **Multilink** during a four-week period, cementing over 110 restorations. This product received a 97% rating.

Suggested Retail Cost
• \$265.00/System Pack

Editors' Observations
Manufacturer's Instructions
Consultants found the instructions very clear and concise. An illustrated guide allows quick chair-side reference of step-by-step procedures with **Multilink**.

continued on back

Multilink Automix +++++

Delivery System/Viscosity
Many of the consultants commented on the convenience of the auto-mix syringe and the consistent mix with each use. The mixing tip allows for controlled flow of the cement into the restoration. The mixing tip is a little too wide to extrude cement directly into some post spaces; however, the cement easily coats all surfaces of the restoration and allows for easy seating.

Working Time/Setting Time
One-hundred percent of consultants found there was adequate working time. Use of the primer accelerates the setting of **Multilink**, which affects placing cement directly into a canal or inlay preparation. Consultants commented favorably on the dual-cured capability.

Ease of Excess Removal
All of the consultants found that excess cement was easy to remove. A 10-second "flash" cure at the margins also allows fast and easy clean-up.

Post-operative Sensitivity/Retention
None of the 110 restorations cemented with **Multilink** debonded during the four-month evaluation period. There were no reports of post-operative sensitivity.

Clinical Tip
• Store the auto-mix syringe with the previously-used tip left in place to reduce cross-contamination between the base and catalyst. ■

"Cement is very easy to use"

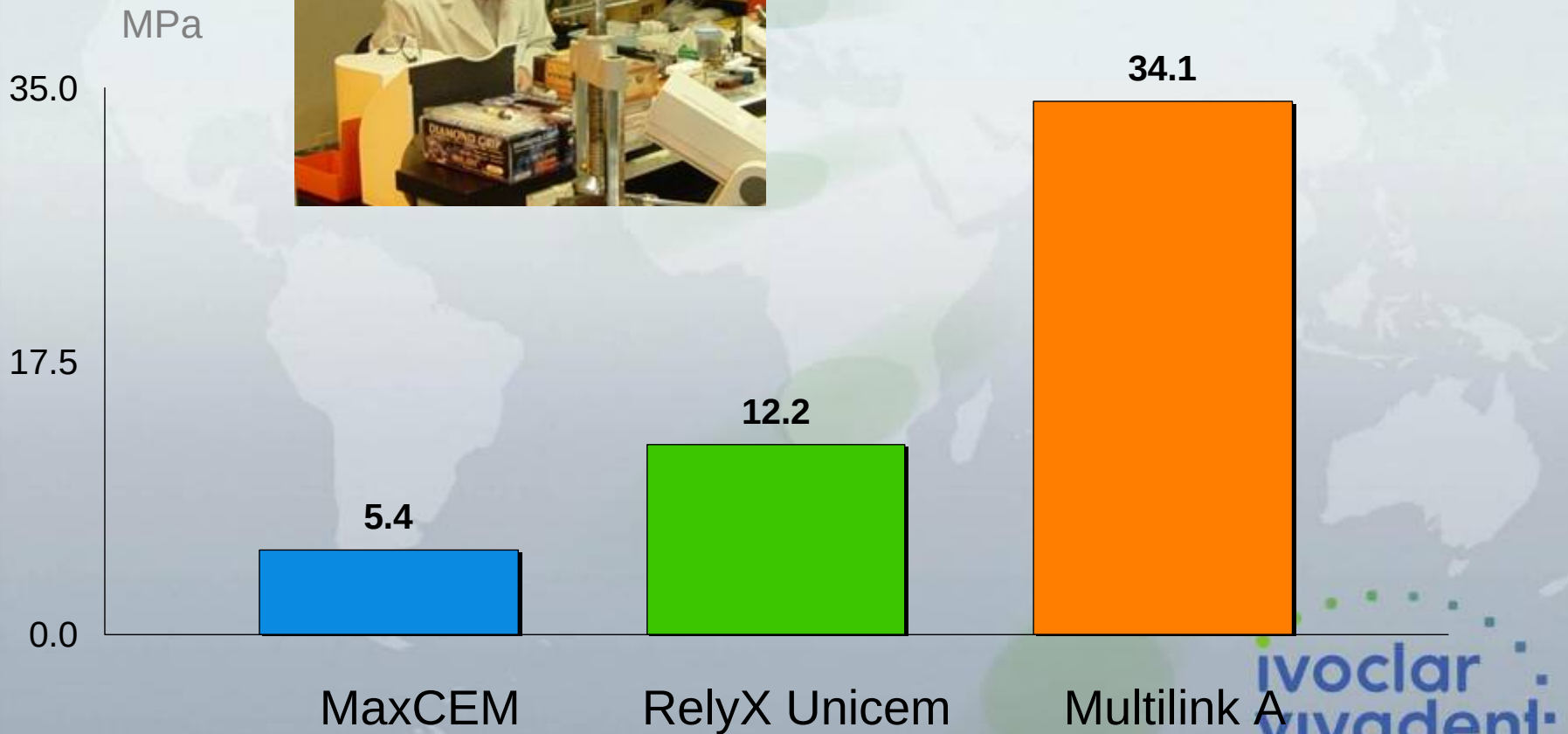
"...easy seating of restorations"

"Transparent shade blends well with ceramic inlays"

"There were no reports of post-operative sensitivity"

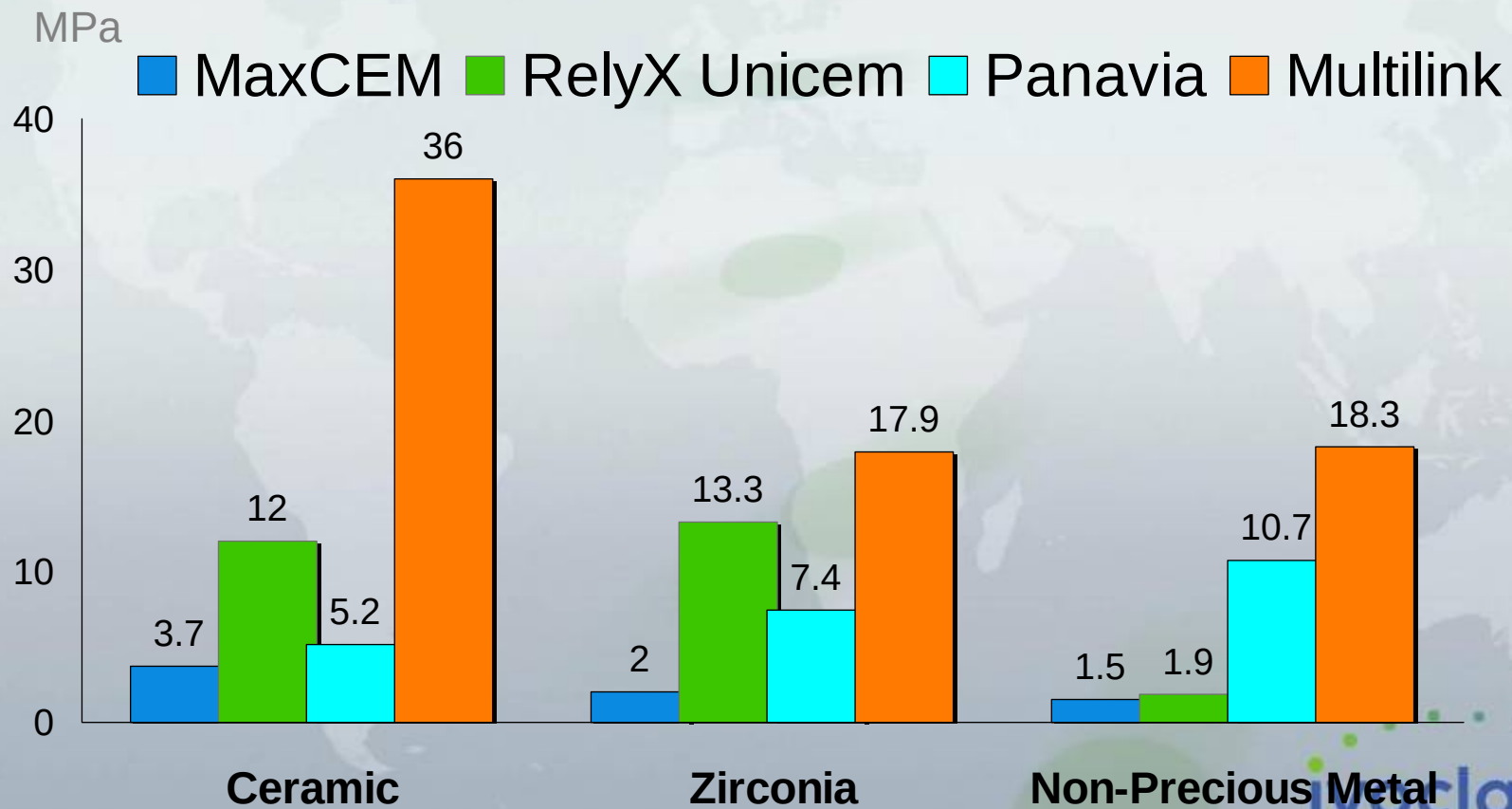
ivoclar
vivadent

immediate shear bond strength
Dr. Mark Latta



Immediate bond. Light Cure - etched and silanted glass ceramic to dentin

immediate shear bond strengths -
various substrates
Dr. Carlos Munoz, SUNY @ Buffalo



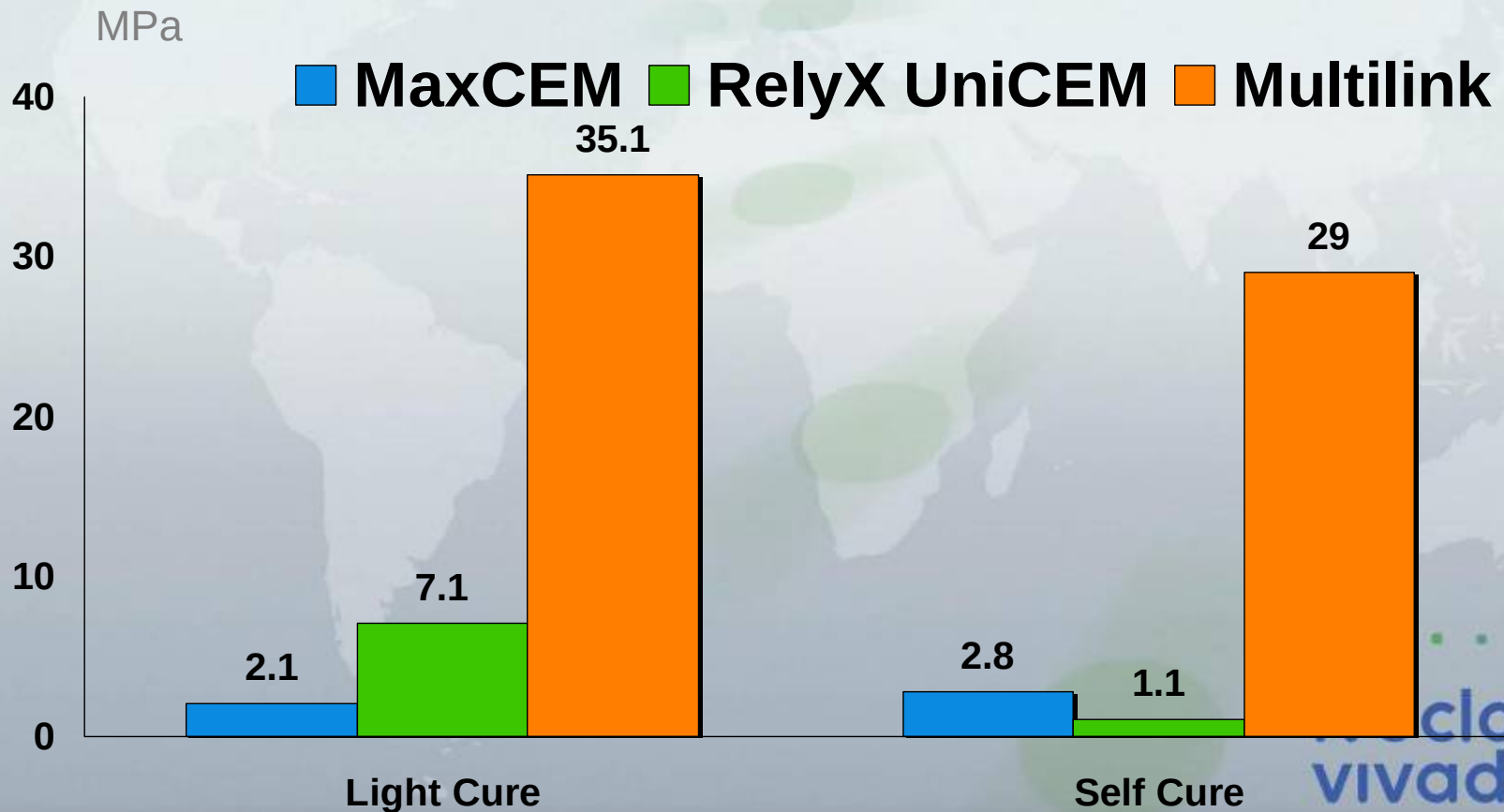
Immediate bond. Light Cure - dentin; surfaces treated according to instructions for use



*shear bond strengths
light cure vs. self cure*



Drs. Jim Simon & Wald de Rijk, University of TN



Light cure immediate vs. 10 minute self cure- etched and silanated glass ceramic to dentin

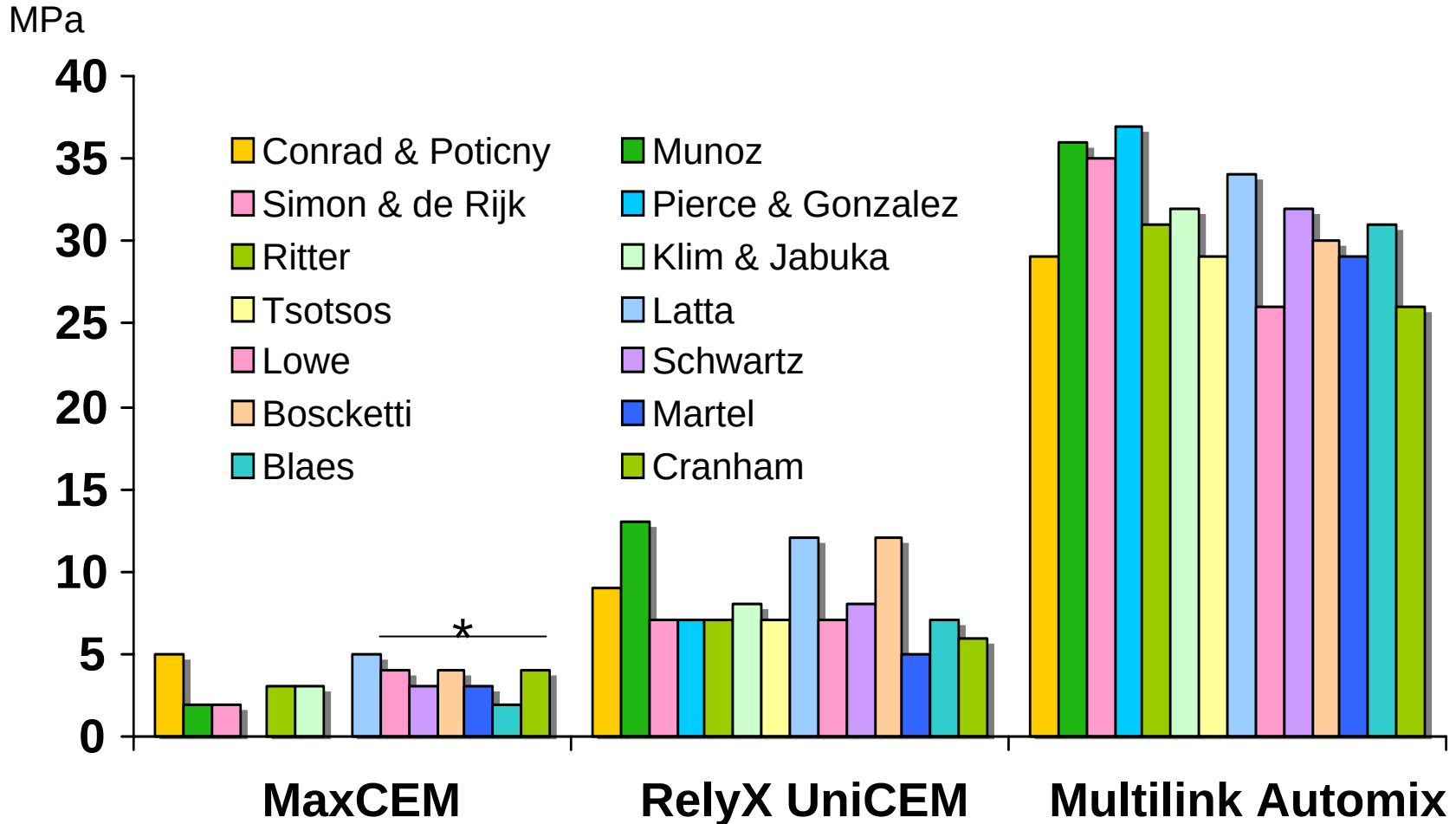
**“I saw it for myself –
15 seconds of primer application provides
five times the bond strength of competitive materials – it’s worth it to
secure my patient’s restorations.”**



Dr. James Simon Memphis, TN

Immediate Shear Bond Strengths

light cured (40 seconds) to etched, silanated glass ceramic



Data representative of over 250 samples prepared according to manufacturer's instructions for use -

*data generated per updated instructions from Kerr - 90 second wait prior to light curing.



Dr. Robert Ritter/Nelson Rego CDT



Dr. Robert Ritter/Nelson Rego CDT

OptraGate®

Lip and Cheek Retractor



Optra®mized for efficiency

- *Increased Access*
- *Easy Application*
- *Disposable*
- *Latex Free*
- *Patient Comfort*

ivoclar
vivadent:



Dr. Robert Ritter/Nelson Rego CDT



Dr. Robert Ritter/Nelson Rego CDT



After try-in, apply
Monobond-S to internal
glass ceramic surfaces,
allow to dry and then
apply Multilink Automix
Cement.





Dr. Robert Ritter/Nelson Rego CDT



Dr. Robert Ritter/Nelson Rego CDT

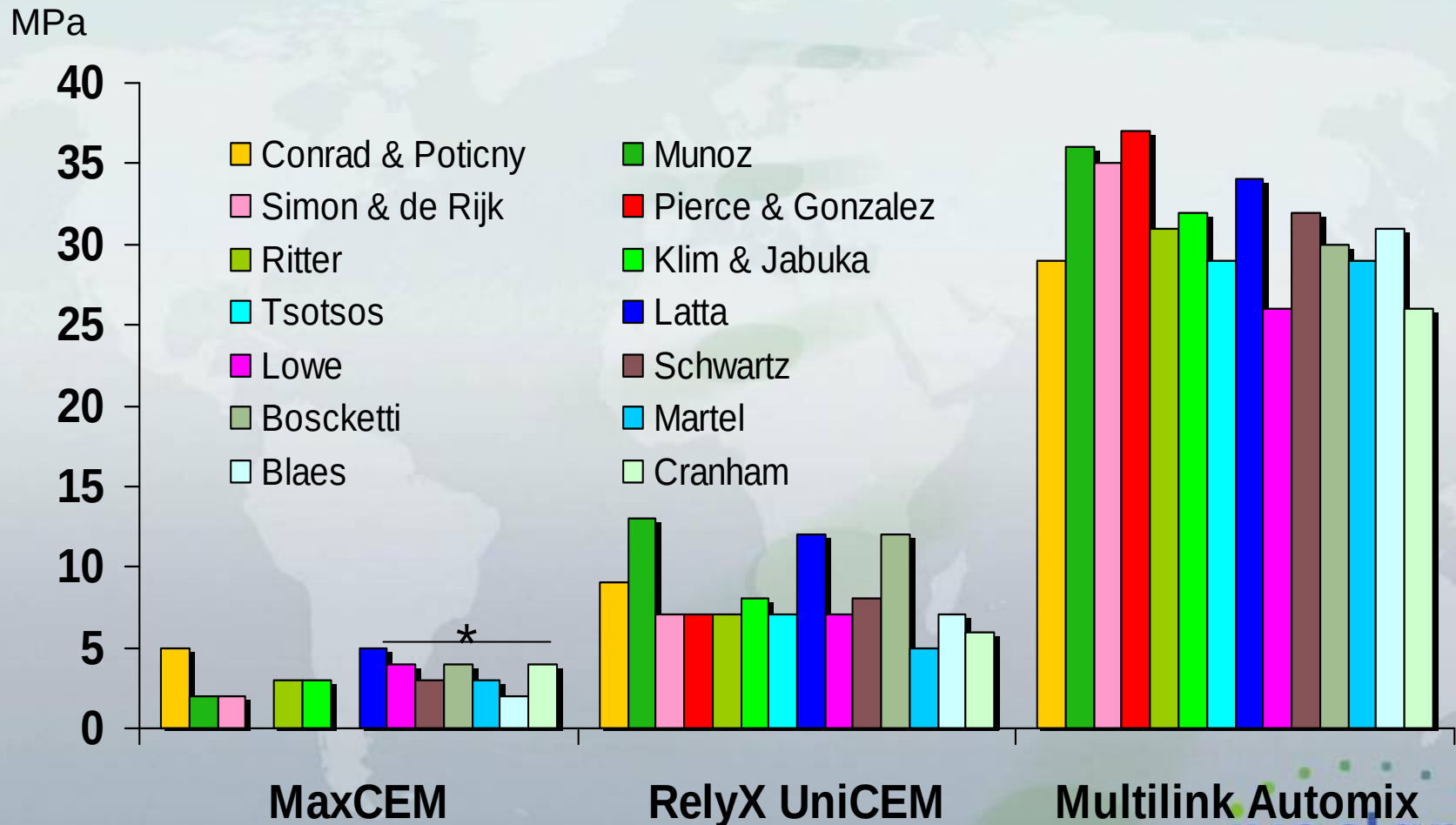
Self-Adhesive Cement Options

	RelyX UniCEM	MaxCEM	Multilink
Category of Cement	Self Etch	Self Etch	Self Etch
Special Handling/Use	Activate Capsule: 10-15 seconds mixing	Allow to sit 90 seconds prior to light curing	15 Seconds primer A&B on tooth
Delivery Form	Direct Application using dispensing gun into restoration	Direct Application into restoration	Direct Application into restoration
Accessory Equipment needed	Triturator and dispensing gun	Automix tips	Automix tips

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Cementation



Data representative of over 250 samples prepared according to manufacturer's instructions for use -

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Thank You!