

PULPDENT[®]

INOVAÇÃO DENTÁRIA DESDE 1947



70
ANOS

CATÁLOGO
2017

PULPDENT[®]

Escrita per Fred BERK, Vice-President of Pulpdent Corporation

A Pulpdente fundada em 194, é uma empresa familiar de investigação e produção. Com o produto Pulpdent Paste, a Pulpdent produziu a sua primeira pasta de hidróxido de cálcio pré-misturada que foi também o primeiro material dentário bioactivo. A Pulpdent Paste é reconhecida mundialmente pela sua utilização em tratamentos da polpa vital e de

canais radiculares. Nos anos que se seguiram, a Pulpdent tornou-se fiel aos seus princípios fundadores de educação, prevenção, cuidados dentários e pró-atividade de forma a proporcionar às pessoas uma vida mais saudável.

A investigação e o desenvolvimento dos produtos Pulpdent estão orientados para interagir com os

poderes curativos da natureza em conjunto com materiais bioactivos que mimetizam as propriedades físicas da estrutura do dente. Estes materiais comportam-se favoravelmente na cavidade oral húmida, maximizando o potencial de remineralização.



ANOS

S E R V I N D O S E U S D E N T E S

ATODOS OS NOSSOS PRODUTOS SÃO FABRICADOS EM WATERTOWN, USA.



ISO 9001:2008

ISO 13485:2003

Medical Device Directive 93/42/EEC

Os produtos da marca Pulpdent são dispositivos médios de classe I e II, de acordo com a regulamentação EC - Directiva MDD 93/42/EEC. Estes produtos são destinados à utilização exclusiva dos profissionais da área dentária. Ler atentamente as informações no folheto informativo

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H I S T

1947

PULPDENT PASTE

A empresa foi fundada pelo Drs. Harold Berk e Benjamin Rower. Apresentação da primeira tecnologia patenteada, Pulpdent Paste, o primeiro penso de hidróxido de cálcio.



1955

NATIONAL INSTITUTES OF HEALTH

Foram dados passos importantes no que diz respeito à biologia da polpa através de investigação clínica realizada no Instituto Nacional de Saúde (NIH), onde se estudou a proteção polpar direta usando a Pasta Pulpdent para a polpotomia vital e para a curetagem pulpar utilizando hidróxido de cálcio.

1963

SERINGA DE ALTA PRESSÃO / ROOT CANAL SEALER

Apresentação da seringa endodôntica de alta pressão e do selante Root Canal Sealer para obturação de dentes primários e definitivos.



1975

Os irmãos Berk assumiram a responsabilidade da gestão da empresa.

1980

A empresa começa a fabricar e a desenvolver novos produtos.



1985

PERIO CARE / TEMPCANAL

Introdução do TempCanal e do PerioCare.

Ó R I A

1 9 8 9

H A R D C O R E



Apresentação de resinas dentárias: Resilute, Seal-Rite, OBA, Brand-Rite, HardCore.



1 9 9 6

Certificação ISO: 1º fabricante dentário com certificado ISO na América do Norte.

2 0 0 2

EMBRACE WETBOND PIT & FISSURE SEALANT / SEAL-N-SHINE / EMBRACE CEMENT



Introdução de resinas patenteadas hidrofílicas sem bisfenol A nem Bis-GMA: Embrace Wetbond para cavidades e sulcos, Embrace Cement, Seal-n-Shine.



2 0 0 5

S A V E T H A T T O O T H

Publicação « *Salvemos este dente* » por Dr. Harold Berk.

2 0 0 9

T U F F - T E M P P L U S



Introdução do Tuff-Temp, sem Bisfenol A: primeira resina patenteadada de borracha de uretano de dupla polimerização para coroas e pontes provisórias, resistente aos impactos.



2 0 1 3

A C T I V A B I O A C T I V E

Introdução de resinas patenteadas hidrofílicas, sem Bisfenol A e bioativas da gama ACTIVA. Os primeiros compostos bioativos na dentisteria.



SEM BPA

Todos os produtos deste catálogo estão garantidos sem BPA, sem BIS-GMA e sem BIS-DMA.

O Bisfenol A foi sintetizado pela primeira vez há 100 anos. As suas propriedades estrogênicas têm sido estudadas desde os anos 1930. Este composto foi rapidamente integrado na indústria dos plásticos e dos revestimentos embora os dados publicados indiquem que a exposição ao Bisfenol A possa ter efeitos adversos na saúde humana e no desenvolvimento infantil¹. Estes estudos mostram que o bisfenol A é um fator de risco para o desenvolvimento do cancro, na infertilidade ou malformações do esmalte.^{2 3 4} O Bisfenol A não é recomendado para mulheres grávidas, jovens e crianças.¹



Em 2011 a União Europeia proibiu o seu uso em tetinas e esta lei foi aplicada a todas as embalagens de alimentos em janeiro de 2015.

As resinas para restauração dentárias têm sido cada vez mais usadas devido às suas propriedades únicas, garantindo alta resistência e a facilidade de manuseamento, bem como as suas qualidades estéticas. No entanto, frequentemente estes produtos incluem Bisfenol A ou os seus derivados tais como Bis-GMA, Bis-DMA ou TEGDMA.¹

Com o objetivo de respeitar a saúde dos pacientes, a Pulpdent oferece uma gama completa de produtos sem bisfenol A e seus derivados. Os seus pacientes podem beneficiar dos mais recentes avanços nas resinas e selantes sem ter que se sujeitar à exposição e aos possíveis efeitos adversos associados com bisfenol A e seus derivados.

Fontes:

- 1 – Sobre a direção de: Fleisch A.F [2010] «Bisphenol A and Related Compounds in Dental Materials», *Pediatrics-Official journal of the American academy of pediatrics*, Vol. 126, número 4, pp.760-766
- 2 – Estudo do Centro de Oncologia de Cincinnati: Ansari KI, Bobzean SA, Perrotti U [2014] « BisphenolA and Diethylstilbestrol Exposure Induces the Expression of Breast Cancer Associated Long Noncoding RNA HOTAIR In Vitro and In Vivo » *American Journal of Pathology*.
- 3 – Estudo da escola de saúde pública de Harvard: Sob a direção de: Machtinger R [2013] «Bisphenol-A and human oocyte maturation in vitro»
- 4 – Estudo conjunto de l'INSERM Paris e INRA Dijon sob a direção de: Babajko, S. [2013]. « Enamel defects reflect perinatal exposure to bisphenol A ». *American Journal of Pathology*



HIDROFILIA

Em 2002, a Pulpdent introduziu os materiais Embrace WetBond, as primeiras resinas dentárias iônicas, que são hidrófugas.

A boca é naturalmente húmida: a dentina contém 15% de água e o esmalte contém aproximadamente 4%. Assim, as resinas dentárias tradicionais são hidrofóbicas e exigem que a superfície de trabalho esteja seca. Há que salientar que a secagem da dentina altera a composição química do dente, deixando-o sensível. As resinas tradicionais são conhecidas por ser passivas e ter uma existência neutra na boca. Esta abordagem passiva não beneficia dos ganhos positivos que podem ser obtidos com materiais activos que se comportam de um modo dinâmico no meio bucal*



A Pulpdent desenvolveu Embrace WetBond e ACTIVA BioACTIVE, resinas e selantes hidrofílicos, que toleram a humidade. Estas resinas e selantes têm uma associação positiva com a água, beneficiando da humidade natural, sempre presente na boca.

Ainda que o Embrace WetBond e o ACTIVA BioACTIVE sejam hidrofílicos e possuam um certo teor de humidade, eles não são solúveis. Mais ainda, estes produtos possuem propriedades que permite adaptar-se a modificações do ambiente bucal.

A saliva e o ambiente bucal são sujeitos a variações contínuas de pH. Quando o pH é baixo, há um processo de desmineralização na superfície do dente que é acompanhada pela libertação de iões de fosfato e de cálcio. Quando o pH aumenta estes iões entram em contacto com os iões de flúor da nossa saliva e propagam-se nos dentes sobre a forma de fluorapatite resistente aos ácidos.

Este progresso na saúde oral permite explorar tecnologias e o poder regenerativo natural e bioactivo integrado num meio oral húmido.

*McCabe JF, et al. Smart materials in dentistry. School of Dental Sciences, Newcastle University, UK

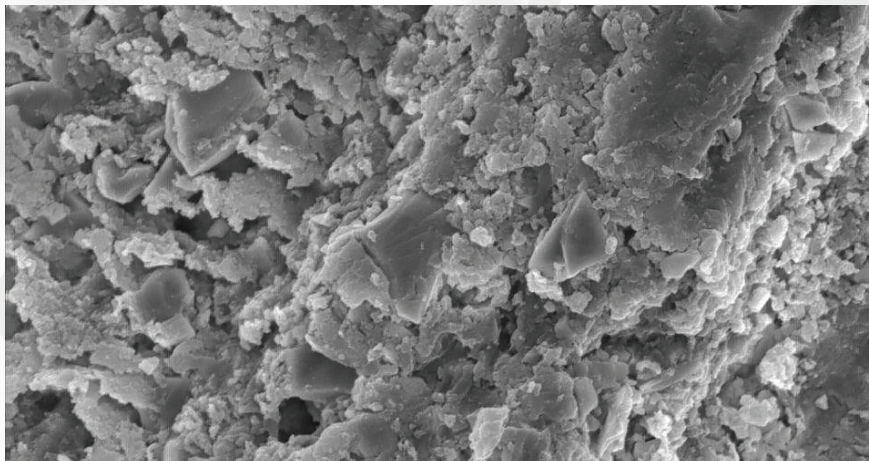


BIOACTIVO

ACTIVA é o primeiro material restaurador dentário aprovado pela FDA (Food, Drug & Administration) como «bioativo»

Created in 1947, Pulpdent is a family-owned research and manufacturing company. With Pulpdent Paste, Pulpdent succeeded in creating the first pre-mixed calcium hydroxide paste and the first bioactive dental material. Pulpdent Paste is recognized worldwide for its use in the treatment of vital pulp and root canals. In the years following the introduction of Pulpdent Paste, Pulpdent has remained loyal to their founding principles of

education, prevention, oral health and proactivity in their efforts to help people live healthier lives. The research and development behind Pulpdent products focuses on creating bioactive materials that mimic the physical properties of teeth and help to activate natural healing powers. These materials work beneficially in the moist environment of the mouth while maximizing the potential for remineralization.



Na presença de humidade, ACTIVA BioACTIVE tem a particularidade de criar hidroxiapatite, principal composto mineral do esmalte e da dentina.

O esmalte e a dentina podem apresentar micro-fissuras por diversas razões, entre as quais, pressão oclusal, utilização de brocas e de certos materiais de restauração ou aparecimento de cáries. A formação de hidroxiapatite pode parar estes fenómenos devido a uma resposta cinética das estruturas do dente.

«Um material bioactivo cria um ambiente compatível com a osteogénese e o processo de mineralização forma uma ligação natural entre os tecidos vivos e não vivos (sintéticos) dos materiais de restauração.»

(Cao W, Hench LL. 1996)

«Um material bioactivo é capaz de estimular a superfície do dente, e a formação de hidroxiapatite na presença de saliva ou humidade.»

(SR Jefferies, 2014.)

MIMETIZAÇÃO DA NATUREZA

Bioactive dental materials imitate nature. They contain water, interact with saliva and the tooth structure and actively participate in the cycles of ionic exchange that regulate the natural chemistry of our teeth and saliva and contribute to the maintenance of tooth structure and oral health.

BENEFÍCIOS DURADOUROS

ACTIVA chemically bonds to teeth, sealing them against bacterial leakage. Their continuous release and recharge of calcium, phosphate and fluoride ions provide patients with long-term benefits.

DYNAMIC «SMART» MATERIAL

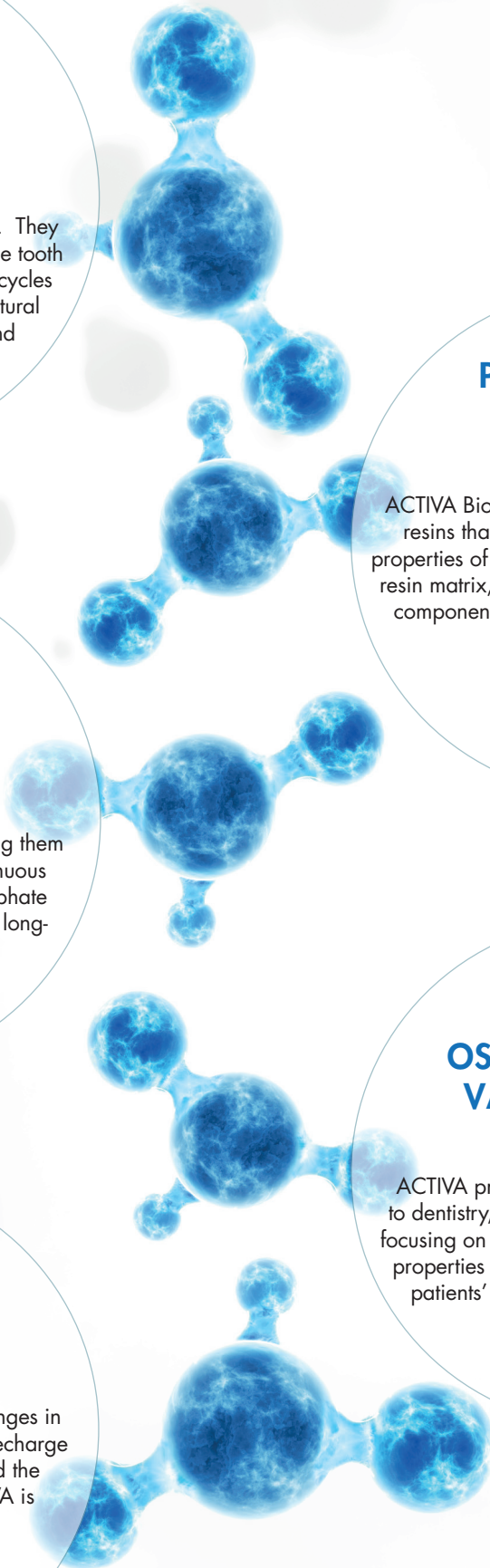
ACTIVA reacts to the continuous pH changes in the oral environment to help fortify and recharge the ionic properties of saliva, teeth and the material itself. For this reason, ACTIVA is considered a “smart” material.

PROPRIEDADES MIMÉTICAS

ACTIVA BioACTIVE products are the first dental resins that mimic the physical and chemical properties of teeth. They contain a bioactive ionic resin matrix, a shock-absorbing rubberized resin component and reactive ionomer glass fillers.

OS SEUS PACIENTES VÃO AGRADECER

ACTIVA products take a pro-active approach to dentistry, anticipating oral health needs and focusing on long-term prevention. The bioactive properties of the products continue to work in patients’ mouths long after the patient has left the dental office.





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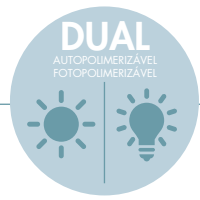
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ACTIVA

BioACTIVE RESTORATIVE



Estética semelhante a um compósito

Liberta e acumula continuamente iões de flúor, fosfato e cálcio

Resistência às fraturas, à erosão e absorvente de choques

ACTIVA BioACTIVE – RESTORATIVE é o primeiro material de restauração bioactivo que combina as vantagens dos compósitos, dos ionómeros de vidro e dos CVIMARs, sem os seus inconvenientes. É uma combinação inigualável que reúne propriedades físicas e químicas com o objectivo de proporcionar bioactividade, estética, dureza, resistência, durabilidade e uma integridade marginal.

ACTIVA BioACTIVE – RESTORATIVE é recomendado usar-se como um compósito de preenchimento nas restaurações de classe I, II, III e V, sempre que a polpa vital não esteja exposta. ACTIVA é hidrofílica e liga-se quimicamente ao dente. As suas propriedades miméticas permitem uma restauração estética. ACTIVA é resistente aos impactos, impede infiltrações bacterianas, e elimina problemas de sensibilidade.



PROPRIEDADES FÍSICAS

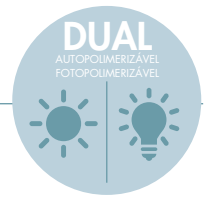
Tempo de autopolimerização :	2½-3 minutos	Módulo de flexão :	4,3 GPa
Tempo de fotopolimerização :	20 segundos	Resistência à flexão :	102 MPa / 14 790 psi
Profundidade da fotopolimerização :	4 mm	Resistência à compressão :	280 MPa / 40 600 psi
Taxa de retracção à polimerização :	1,7%	Resistência à pressão diametral :	42 MPa / 6090 psi
Libertação de flúor após 1 dia :	230 ppm	Absorção de água após 7 dias :	1,65%
Libertação de fluor acumulada após 28 dias :	940 ppm	Percentagem de ionómero de vidro :	21,8%

	VR1*	SINGLE REFILL: 5mL/8gm syringe + 20 assorted automix tips	* Specify Shade : A1, A2, A3, A3.5
	VR2*	VALUE REFILL: 2 x 5mL/8gm syringe + 40 assorted automix tips	* Specify Shade : A1, A2, A3, A3.5
	VR*	STARTER KIT: 5mL/8gm syringe, ACTIVA-SPENSER™ + 20 assorted automix tips	* Specify Shade : A1, A2, A3
	DS05	ACTIVA Spenser: Dispenser for 5mL automix syringes	
	A20N1	Automix Tips, clear, with bendable 20-gauge metal cannula – pkg of 20	
	A50N1	Automix Tips, clear, with bendable 20-gauge metal cannula – pkg of 50	



ACTIVA™ kids

BioACTIVE RESTORATIVE



Opaque white shade ideal for children's teeth

Stimulates apatite formation

Fracture and wear resistant

ACTIVA KIDS é um substituto perfeito da amálgama, sem conter bisfenol A, nem Bis-GMA nem derivados de BPA. Os pais podem estar seguros que o ACTIVA KIDS é seguro para os seus filhos. A cor do ACTIVA KIDS está adaptada aos dentes das crianças (cor B 0,5). ACTIVA KIDS é uma resina iónica de restauração que estimula a formação de hidroxiapatite, um processo de remineralização natural do dente por libertação e absorção

de cálcio, fosfato e flúor. Este material patenteado contém uma matriz de resina bioactica, que absorve os choques e as cargas, bem como um biovidro que oferece: estética, durabilidade e resistência à fratura e à erosão.

ACTIVA KIDS substitui os ionómeros de vidro, oferecendo as propriedades físicas dos materiais compósitos e as vantagens químicas dos ionómeros de vidro.



ACTIVA É RECOMENDADA POR MUITOS ESPECIALISTAS NA DENTISTERIA PEDIÁTRICA :

É assim, um material de eleição na odontopediatria satisfazendo as necessidades da dentisteria pediátrica. Eu utilizo há muitos anos, com resultados excepcionais.






- Dr Mark Cannon

O futuro da dentisteria está nos materiais bioativos. Activa é um dos melhores materiais que apareceu no mercado nos últimos anos. A integridade das margens, o manuseamento e a estética são verdadeiramente impressionantes.

- Dr Josh Wren

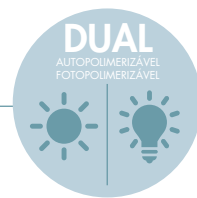
Os produtos ACTIVA são verdadeiramente únicos e sem precedentes no contexto dos materiais de restauração dentária. As características físicas deste material associam a força e a resistência dos materiais compósitos à base de resina. Os limites brancos tornam-se invisíveis. Inexistência de sensibilidade dentária pós-operatória.

- Croll TP, Berg JH, Donly KJ Compendium 2015; 36 (1): 60-65.

	VK1P	SINGLE REFILL: 5mL/8gm syringe Pedo Shade + 20 automix tips with bendable 20-gauge metal cannula	
	VK2P	VALUE REFILL: 2 x 5mL/8gm syringes Pedo Shade + 40 automix tips with bendable 20-gauge metal cannula	
	VKP	STARTER KIT: 5mL/8gm syringe Pedo Shade, ACTIVA-SPENSER™, + 20 automix tips with bendable 20-gauge metal cannula	
	DS05	ACTIVA Spenser: Dispenser for 5mL automix syringes	
	A20N1	Automix Tips, clear, with bendable 20-gauge metal cannula – pkg of 20	
	A50N1	Automix Tips, clear, with bendable 20-gauge metal cannula – pkg of 50	



ACTIVA BioACTIVE BASE / LINER



Elimina os problemas de sensibilidade

Liberta e acumula continuamente iões de flúor, fosfato e cálcio

Sem necessidade de agente de adesão



ACTIVA BioACTIVE – BASE/LINER é o primeiro material para fundo de cavidade bioactivo que combina propriedades de absorção de choque, resistência e durabilidade. Com grande facilidade de aplicação, a adesão e a integração química ao dente eliminará microinfiltrações bacterianas. ACTIVA BioACTIVE – BASE/LINER adere quimicamente à dentina, integrando-se no

dente. É também mais duro que um compósito fluido e liberta mais flúor que um iónomero de vidro, tornando o dente mais forte. Após a polimerização, ACTIVA BioACTIVE – BASE/LINER torna-se duro e impermeável à infiltração bacteriana, eliminando problemas de sensibilidade. É compatível com todas as técnicas de restauração.



PROPRIEDADES FÍSICAS

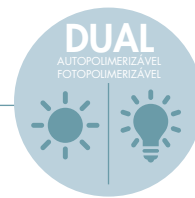
Tempo de autopolimerização :	2½-3 minutos	Módulo de flexão :	3,7 GPa
Tempo de fotopolimerização :	20 segundos	Resistência à flexão :	86 MPa / 12 470 psi
Profundidade da fotopolimerização :	4 mm	Resistência à compressão :	226 MPa / 32 770 psi
Libertação de fluor após 1 dia :	360 ppm	Resistência à pressão diametral :	37 MPa / 5365 psi
Libertação de fluor acumulada após 28 dias :	1300 ppm	Porcentagem de iónomero de vidro :	19,3%
Absorção de água após 7 dias :	2,30%	Espessura do filme :	45%

	VB1	SINGLE PACK: 5mL (7gm) syringe + 20 automix tips with bendable, 20-gauge metal cannula	
	VB2	VALUE PACK: 2 x 5mL (7gm) syringes + 40 automix tips with bendable, 20-gauge metal cannula	

	A20N1	Automix Tips, clear, with bendable 20-gauge metal cannula – pkg of 20	
	A50N1	Automix Tips, clear, with bendable 20-gauge metal cannula – pkg of 50	



ACTIVA BioACTIVE CEMENT



Auto-adesivo e sem necessidade de ataque ácido

Promove a formação de hidroxiapatite

Sela todos os materiais protéticos - Bio-compatível

ACTIVA™ BioACTIVE-CEMENT™ é o primeiro material de selamento protético sem bisfenol A nem seus derivados, que possui a designação de "BioActive". Liberta e absorve íons de flúor, fosfato e cálcio, promovendo a formação de hidroxiapatite e um processo de mineralização que proporciona ao dente os minerais necessários. Esta troca iônica assegura uma excelente qualidade de adesão e uma estanquidade perfeita nos limites.

A sua composição patenteada oferece propriedades físicas excepcionais de resistência ao choque, à tensão e à erosão. Contrariamente a outros materiais, funciona de forma perfeita para selar todo o tipo de elementos protéticos (zircônio, cerâmica, metal) e é particularmente recomendado para selar implantes devido à sua bio-compatibilidade, evitando peri-implantites.



PROPRIEDADES FÍSICAS

Tempo de trabalho à temperatura ambiente :	90 segundos	Módulo de flexão :	3,7 GPa
Tempo de fotopolimerização :	20 segundos	Resistência à flexão :	88,4 MPa / 12 800 psi
Tempo de auto-polimerização :	< 3 minutos	Resistência à compressão :	210 MPa / 30 500 psi
Porcentagem de preenchimento em peso (vidro bioativo) :	47%	Resistência à pressão diametral :	37 MPa / 5365 psi
Libertação de flúor após 1 dia :	360 ppm	Absorção de água após 7 dias :	2,30%
Libertação de flúor acumulado após 28 dias :	1300 ppm	Espessura do filme :	11 microns

	VC1A2	SINGLE PACK: 5mL (7gm) syringe + 20 automix tips (15 A20 + 5 A20N1)	A2 Opaque Shade
	VC2A2	VALUE PACK: 2 x 5mL (7gm) syringes + 40 automix tips (30 A20 + 10 A20N1)	A2 Opaque Shade
	VC1T	SINGLE PACK: 5mL (7gm) syringe + 20 automix tips (15 A20 + 5 A20N1)	Translucent Shade
	VC2T	VALUE PACK: 2 x 5mL (7gm) syringes + 40 automix tips (30 A20 + 10 A20N1)	Translucent Shade

	A20	Automix Syringe Tips, pkg. 20
	A50	Automix Syringe Tips, pkg. 50

	A20N1	Automix Tips, clear, with bendable 20-gauge metal cannula – pkg of 20
	A50N1	Automix Tips, clear, with bendable 20-gauge metal cannula – pkg of 50

ACTIVA - VISITA AO 46 MÊS

Fotos de Dr. John Comis



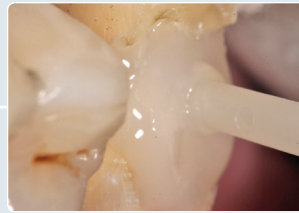
1A. 7 Outubro 2012
ACTIVA BioACTIVE-RESTORATIVE pós-operatório.



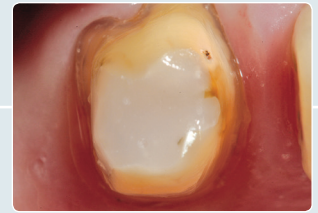
1B. 7 Agosto 2014
46-month recall shows great esthetics, no wear or chipping, and no marginal staining.

RECONSTITUIÇÃO DE COTOS

Fotos de Dr. Robert Lowe



2A. ACTIVA foi utilizado para a reconstrução de um coto sobre um molar fracturado.



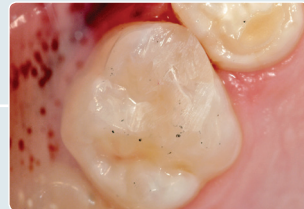
2B. O dente está pronto para receber uma coroa.

RESTAURAÇÃO DE CLASS II

Fotos de Dr. Leon Katz



3A. Preparação do dente minimamente invasiva.



3B. Após 5 segundos de ataque a ácido e de retirar o excesso de água, a foto mostra uma restauração estética com ACTIVA.



4A. Preparação de uma cavidade classe II.



4B. O dente é restaurado com ACTIVA BioACTIVE-RESTORATIVE.

RESTAURAÇÃO SUB GENGIVAL

Fotos de Dr. Robert Lowe



5A. Supressão de uma cárie sobre o bordo da coroa. 5 segundos de ataque ácido, e eliminação do excesso de água.



5B. A hidrofília de ACTIVA permite uma boa adesão com o dente, metal ou cerâmica, oferecendo uma restauração perfeita da parte em falta do dente.

RESTAURAÇÃO DE LESÕES CERVICAIS

Fotos de Dr. C.H. Pameijer



6A. Lesões cervicais visíveis.



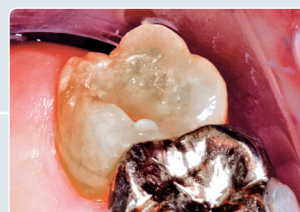
6B. Após ataque ácido, aplicou-se um agente de adesão para melhorar a retenção. ACTIVA proporciona ao paciente estética e bioatividade.

ACTIVA BIOACTIVE-BASE/LINER

Photos courtesy of Dr. Robert Lowe



7A. Shows prepared tooth after removing deep caries under a failed composite restoration.



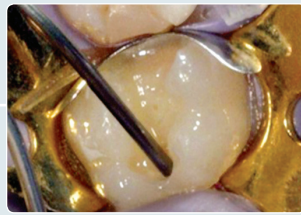
7B. Shows ACTIVA BioACTIVE-BASE/LINER placed and cured. No etching required. Note dentin shade match.

SUBSTITUIÇÃO DE UM COMPÓSITO COM ACTIVA BIOACTIVE-RESTORATIVE

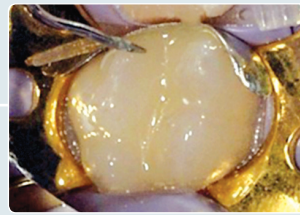
Fotos de Dr Mark Cannon



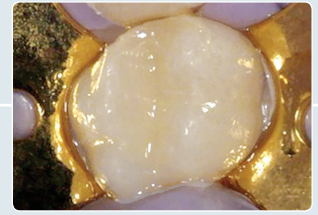
8A. Ataque ácido durante 5 segundos. Enxaguar e retirar o excesso de água.



8B. ACTIVA BioACTIVE – RESTORATIVE é colocado facilmente com a cânula metálica maleável.



8C. Utiliza-se um instrumento para criar a anatomia.



8D. Restauração terminada e polida.

SUBSTITUIÇÃO DE UM COMPÓSITO COM ACTIVA BIOACTIVE – BASE/LINER

Fotos de Dr Robert Lowe



9A. Preparação do dente.



9B. ACTIVA BioACTIVE-Base/Liner após polimerização.



9C. Aplicar Etch-Rite durante 5 segundos.



9D. Acabar a restauração utilizando ACTIVA BioACTIVE-Restorative.

ACTIVA KIDS : EASY TO PLACE - OPAQUE WHITE SHADE

Fotos courtesy of Dr Mark Cannon



10A. Pre-op shows secondary caries on restored molars.



10B. Prepared teeth.



10C. Teeth are etched for 10 seconds.



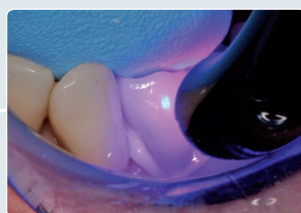
10D. Shows teeth restored with ACTIVA KIDS.

ACTIVA BIOACTIVE-CEMENT

Fotos courtesy of Dr G. Franklin Shull



11A. Tooth is prepared to receive a crown. Note retentive crown prep.



11B. Crown filled with ACTIVA BioACTIVE-CEMENT is seated and tack cured 1-2 seconds.



11C. Excess cement is easily removed.



11D. Shows finished case.

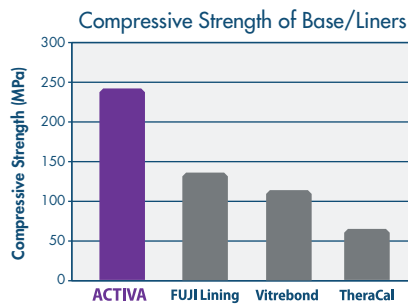
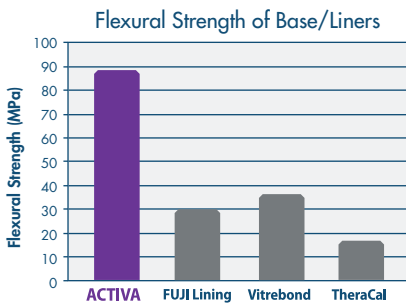
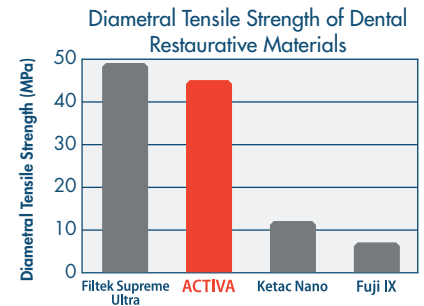
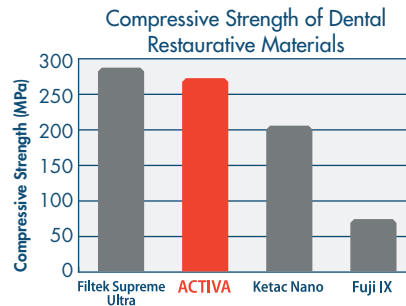
P H Y S I C A L

STRENGTH

Compressive and Diametral Tensile Strength of ACTIVA BioACTIVE-RESTORATIVE is comparable to composites and far superior to glass ionomers and RMGIs.

Filtek = Composite; ACTIVA = Bioactive Restorative;
Ketac Nano = RMGI; Fuji IX = Glass Ionomer

Source: University testing¹⁷ (References: www.activabioactive.com/references/)



Compressive and Flexural Strength of ACTIVA BioACTIVE-BASE/LINER is much greater than resin-modified base/liners and RMGIs.

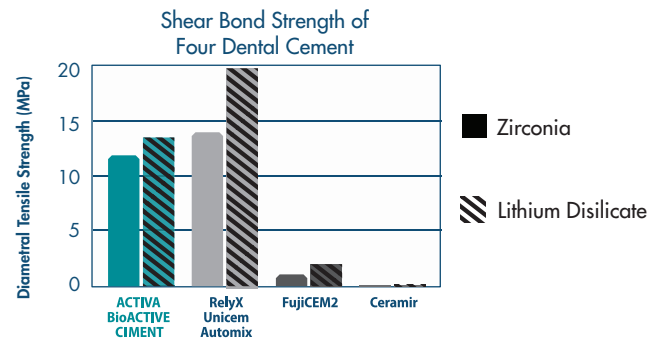
ACTIVA = Bioactive Base/Liner; Fuji Lining = RMGI; Vitrebond = RMGI; TheraCal = Resin-Modified Calcium Silicate

Source: Pulpdent testing¹⁸ (Références: www.activabioactive.fr/references/)

Shear bond strength of ACTIVA BioACTIVE-CEMENT compares favorably with leading cements and is superior to RMGI and calcium aluminate-glass ionomer cements tested.

ACTIVA = Bioactive Cement; RelyX = Self-adhesive Cement; FujiCEM 2 = RMGI;
Ceramic = Calcium Aluminate-GI

Source: University testing¹⁸

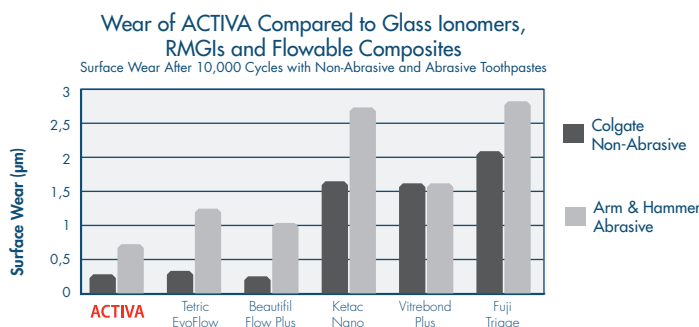


WEAR

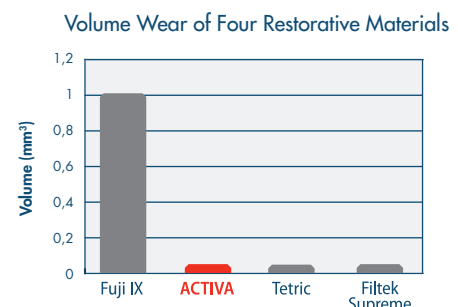
Volume wear of ACTIVA BioACTIVE-RESTORATIVE is comparable to composites and far less than glass ionomer. When

evaluated for surface wear resistance, ACTIVA BioACTIVE-RESTORATIVE performed better than all other materials tested with

abrasive toothpaste and was comparable to flowable composites with non-abrasive toothpaste.



Fuji IX = Glass Ionomer; ACTIVA = Bioactive Restorative; Tetric = Composite;
Filtek Supreme = Composite
Source: University testing²⁸



ACTIVA = Bioactive Restorative; Tetric EvoFlow and Beautiful Flow Plus = Flowable Composite; Ketac Nano and Vitrebond Plus = RMGI; Fuji Triage = Glass Ionomer
Source: University testing²⁷

P R O P E R T I E S

TOUGHNESS, FATIGUE LIMIT, DEFLECTION AT BREAK

ACTIVA's rubberized resin component provides unparalleled toughness and resilience. Toughness, measured by deflection at break using a 3-point bend test, is the ability of a strong, hard material

to absorb stress, dissipate forces and resist fracture when a load is applied. Fatigue limit is determined by the incremental load required to cause fracture within a defined number of cycles.

Deflection at Break of ACTIVA is 2-3 times greater than composites and 5-10 times greater than GIs and RMGIs.

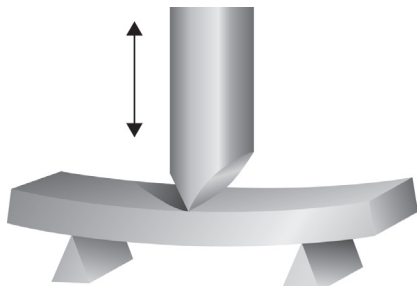


Fig 1: Illustration shows 3-point bend test

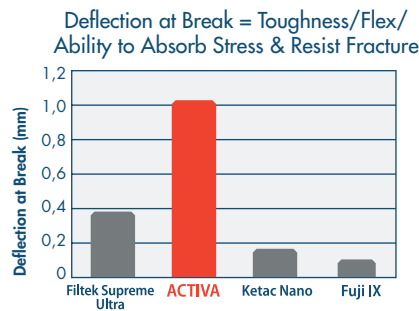


Fig 2: Filtek = Composite; ACTIVA = Bioactive Restorative; Ketac Nano = RMGI; Fuji IX = GI
Source: University testing^{5,17}

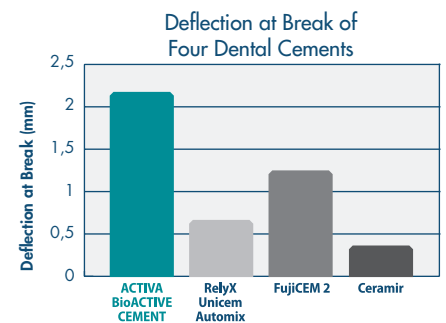


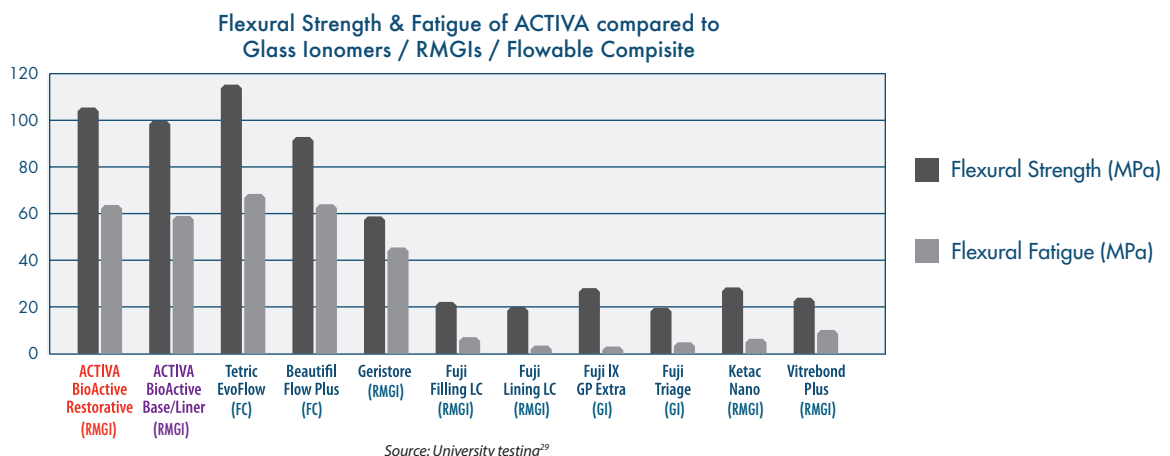
Fig 3: ACTIVA = Bioactive Cement; RelyX Unicem Automix = Self-adhesive Cement; FujiCEM 2 = RMGI; Ceramir = Calcium Aluminate-GI
Source: University testing¹⁴

FLEXURAL STRENGTH AND FLEXURAL FATIGUE

Flexural strength and flexural fatigue measure the amount of stress a material can withstand, measured by deflection at break, and its endurance, measured by the

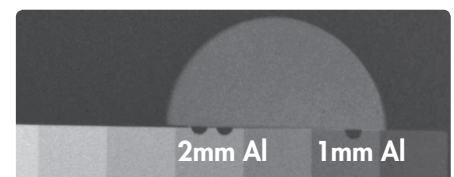
number of repeated cycles before failure. ACTIVA meets the requirement of ISO 4049 for occlusal restorations and demonstrates flexural strength and flexural fatigue

comparable to flowable composites (FC) and significantly greater than conventional RMGIs and GIs tested.



RADIOPAACITY

The radiopacity of ACTIVA is equivalent to 1.5mm of aluminum.



B I O A C T I V E S

APATITE FORMATION

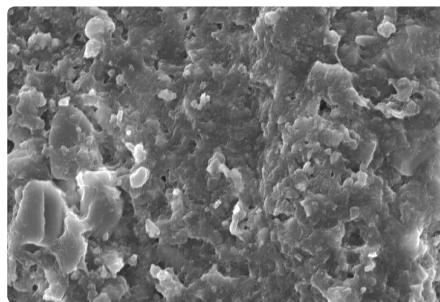
Apatite formation is the essential requirement of bioactive materials. ACTIVA stimulates mineral apatite formation and the natural remineralization process that knits the restoration and the tooth together and

seals margins against microleakage, secondary caries, and failure. ACTIVA responds to pH cycles and plays an active role in maintaining oral health with release and recharge of significant

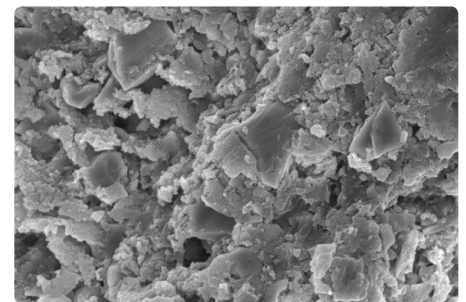
amounts of calcium, phosphate and fluoride. These mineral components stimulate formation of a protective/connective apatite layer and a natural bonded-seal at the material-tooth interface.

Compared to the no saline control, scanning electron microscope (SEM) imaging and energy-dispersive X-ray spectroscopy (EDS) after 21 days in saline shows significant increase in calcium and phosphorus ion concentrations, and decrease in carbon and silica ions, indicating that mineral apatite deposits are forming on the surface.

Source: University testing³⁵



ACTIVA BioACTIVE-CEMENT Control, no saline
3000x

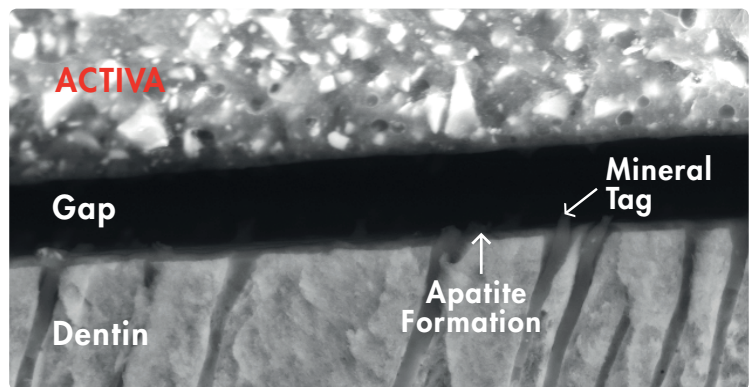


ACTIVA BioACTIVE-CEMENT 21 days in saline
3000x

Scanning electron microscope (SEM) imaging and energy-dispersive X-ray spectroscopy (EDS) analysis of dentin discs treated with ACTIVA BioACTIVE-CEMENT and placed in phosphate buffered solution verifies the bioactive

component of the material and demonstrates excellent dentinal tubule penetration. A layer of apatite formed and fused the dentin to ACTIVA. (The gap was produced when the specimen was fractured to make the SEM.)

Source: University testing⁴¹

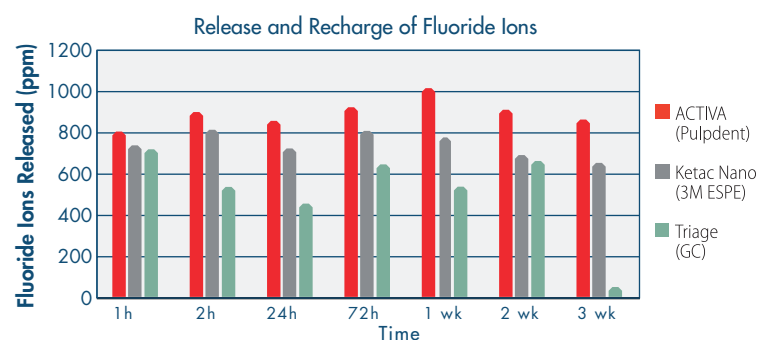


FLUORIDE RELEASE AND RECHARGE

ACTIVA releases and recharges with fluoride, providing long-term patient benefits for improved oral health care.

University testing using fluoride ion concentration gradient diffusion methodology shows the pattern of release and recharge of ACTIVA, Ketac Nano and Triage. The study concludes that "at the seven time points tested, the new bioactive material [ACTIVA] has statistically greater fluoride release after recharge at 24 hours, 1 week and 3 weeks than the other groups tested.

Source: University testing¹ (References: www.activabioactive.com/references/)

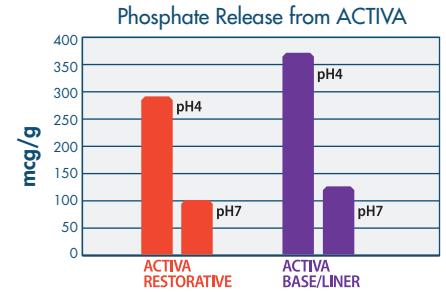


P R O P E R T I E S

PHOSPHATE RELEASE

ACTIVA is a “smart” material that responds to pH cycles in the mouth. During low pH demineralization cycles, ACTIVA releases more phosphate. The phosphate ions can reside in the pellicle layer or saliva and are available to interact with calcium and fluoride ions during higher pH cycles.

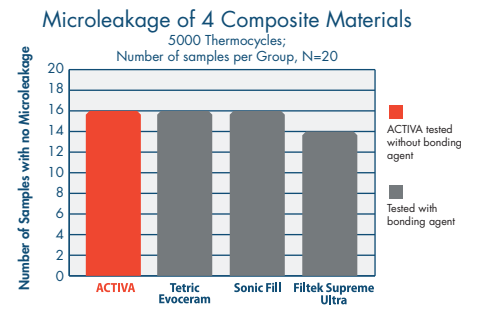
Source: Pulpdent testing⁹



MICROLEAKAGE

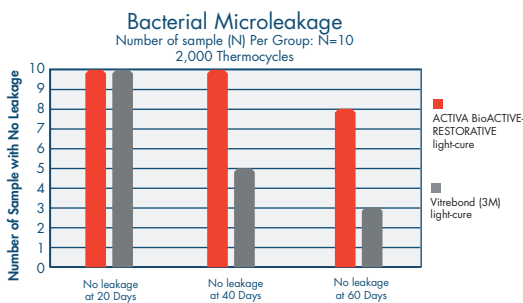
ACTIVA BioACTIVE-RESTORATIVE, when tested in vitro for microleakage *without a bonding agent*, compares favorably with leading composites tested *with a bonding agent* (Scotchbond Universal Adhesive, 3M ESPE).

Source: University testing¹⁶



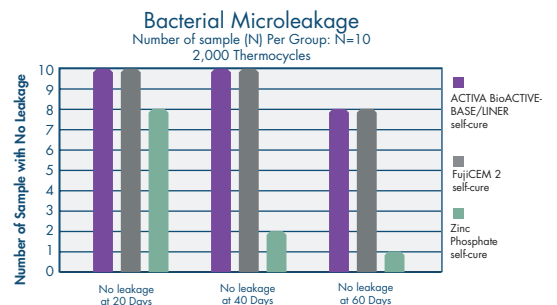
BACTERIAL MICROLEAKAGE

ACTIVA BioACTIVE-RESTORATIVE outperforms a leading RMGI when tested for bacterial microleakage in vitro after 2,000 thermocycles.



Source: University testing.3

ACTIVA BioACTIVE-BASE/LINER compares favorably with a leading resin modified glass ionomer material when tested for bacterial microleakage in vitro after 2,000 thermocycles.

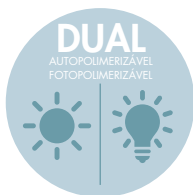


Source: University testing.2



SPEE-DEE BUILD-UP

PARA SELAMENTO DE POSTES E PARA RECONSTITUIÇÃO DE COTOS



Formulado com
EMBRACE™
WetBond™



Resultado sólido e duradouro

Trabalha-se como a dentina

Estrutura homogénea, aplicação simples

Concebido para a reconstituição dos dentes, Spee-dee Build-up aplica-se facilmente assegurando uma estrutura interna homogénea. Graças à sua composição, aplica-se numa só etapa, de forma confortável como nenhuma outra, e simula perfeitamente a estrutura e a dureza do dente. Spee-dee Build-up trabalha-se como a dentina, sendo que os instrumentos

rotativos cortam suavemente e com precisão, sem obstruções. A sua fórmula química única, resistente à humidade, oferece propriedades auto-adesivas naturais. O acabamento com broca da dentina e a utilização de agentes de adesão é facultativa. Spee-dee build-up está disponível em cartucho com pontas curvas Automix para uma mais fácil aplicação.

CLINICAL INDICATIONS

- Post and core build-up after endo
- Direct bonded core without a post
- Vital tooth build-up for crown prep
- Re-cementing loose post and core
- Base/liner under restorations

PROPRIEDADES FÍSICAS

Resistência à compressão :

40 625 psi / 280 MPa

Resistência à flexão :

14 065 psi / 97 MPa

Tempo de autopolimerização :





3 minutos e 10 segundos

Tempo de fotopolimerização :

20 segundos

Profundidade da fotopolimerização :



4 mm

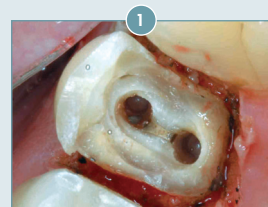
	SBU50	Cartucho Automix de 50 ml / 83 g + 30 pontas Automix	
	SBU	Cartucho Automix de 25 ml / 41,5 g + 20 pontas Automix	
	FD20	20 pontas Automix	
	DS24	Pistola 1:1 para cartucho de 25 ml	
	DS50	Pistola 1:1 para cartucho de 50 ml	



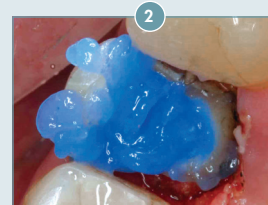
MATRIZ DE COFRAGEM

Transparente para fotopolimerização, em polietileno. Não se pega aos materiais utilizados.

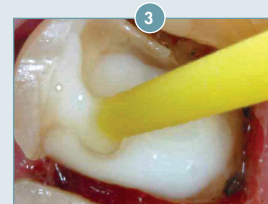
	HCF-AS	Sortido de 64 matrizes, 16 de cada tamanho : S, M, L, XL	
	HCF*	Caixa de 64 matrizes : S, M, L, XL * Especifique o tamanho : Small (1), Medium (2), Large (3), XLarge (4)	



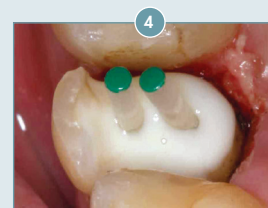
Após o tratamento endodôntico, prepara-se um molar de dois canais.



Aplicação de Etch-Rite durante 15 segundos (opcional).



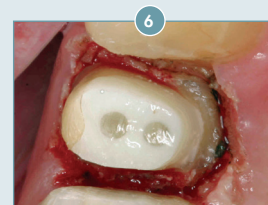
Após enxaguar, deixe o dente ligeiramente húmido. Aplicar.



Inserir os pinos radiculares. Fotopolimerizar durante 20 segundos.



Aplica-se Spee-dee Build-up ao redor dos pinos.

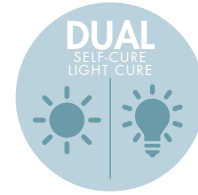


O coto está pronto para impressão.



TUFF-TEMP PLUS

PROVISIONAL VENEER, CROWN & BRIDGE RESIN - DUAL CURE



Impact and fracture resistant

Rebuilds perfectly

Add-on and glaze included

Puldent has integrated a synthetic rubber molecule into the diurethane dimethacrylate monomer to create a proprietary rubberized-urethane resin. This material is tougher and more impact resistant, and provides greater dimensional stability and tighter fitting provisional restorations than acrylics and bis-acrylics. Breakage and debondings are minimized or eliminated.

The material grinds and powders producing crisp and accurate margins that do not soften or distort. Finishing instruments do not gum up or clog. The light cure option produces a full strength restoration on demand and is ideally suited for use with a clear vinyl polysiloxane template.

ADD-ON AND GLAZE

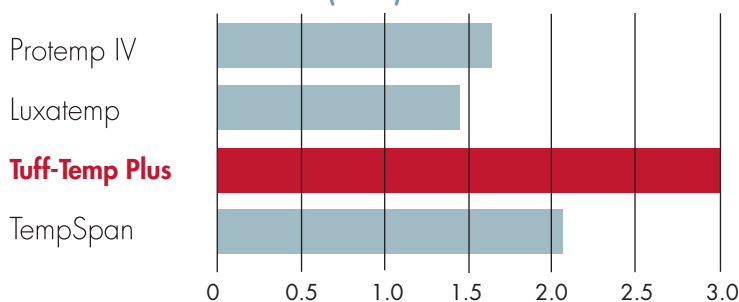
This shade-matching flowable Add-on is light cure and is formulated from the same proprietary rubberized-urethane chemistry. It is ideal for making alterations and for smile design.

The light cure glaze has the same proprietary rubberized-urethane chemistry that provides enhanced esthetics and patient satisfaction during temporization.

FLEXURAL STRENGTH

Tuff-Temp Plus exhibits very high flexural strength without brittleness. Its deflection at break, the key indicator of toughness, is 50% to 100% greater than bis-acrylics.

Deflection at Break (mm)*



* Internal Pulpdent testing. Protemp, Luxatemp and ProSpan are trademarks of 3M, ESPE, DMG and Pentron respectively.

PHYSICAL PROPERTIES

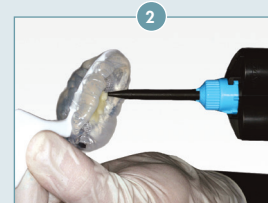
Working time : 45 seconds
 Light cure setting time : 20 seconds
 Initial self-cure setting time : 2 minutes from beginning of mix
 Final self-cure setting time : 4:45 minutes from beginning of mix

Flexural strength : 75 (+/- 5) MPa
 Compressive strength : 200 (+/- 20) MPa
 Deflection at break : 2.9 mm (+/- 0.3 mm)
 Vickers Hardness : 514 MPa

	TTP*	Automix cartridge of 50 ml (76 gm) + 1.2 ml Add-on and 3 ml Glaze + 20 Automix tips + 6 tips	* Specify shade : A1, A2, A3, A3.5, B
	TTP5*	Automix syringe of 5 mL (7.6 gm) and 3 ml Glaze + 8 Automix tips	* Specify shade : A1, A2, A3, A3.5, B
	TTG	Bottle of 6 mL glaze	
	FSB20	20 Automix tips for 50 mL cartridge	
	A20	20 Automix tips for 5 mL syringe	
	DS50	Dispenser for 50 mL, 1:1 Automix cartridge	



1 Crown preps have been completed on the premolar and molar.



2 Fill matrix 3/4 full with Tuff-Temp Plus and seat in the mouth. The time-saving, light cure option can be used with the clear template shown in this case.



3 The 2-unit provisional is trimmed and glazed.



4 The nished Tuff-Temp Plus provisional. Finally, esthetic temporaries that stay on and don't break.



EMBRACE™ OPAQUER

WetBond™

OPAQUE, MOISTURE TOLERANT ET BIOCOMPATIBLE



Eliminates colorations

Covers imperfections and metal

Available in 5 shades

Embrace Esthetic Opaquers provide a palette of five opaquing shades for esthetic dentistry. These shades can be mixed together to produce a wide range of color variations. A thin film masks out metals and discolored tooth surfaces and light cures in 20 seconds. The material spreads quickly and easily with a brush and

cures with all lights. Embrace Opaquers enjoy all the advantages of Embrace resin technology and behave favorably in the moist oral environment. Available in five popular esthetic shades: Bleach White, Off-White, Light Yellow, Pink, Dark Yellow



	EMO*	1.2 mL (2.13 gm) syringe	* Specify shade : Bleach White (1), Off-White (2), Light Yellow (3), Pink (4) ou Dark Yellow foncé (5)	
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EMBRACE™ SEAL-N-SHINE

WetBond™

WET-BONDING, CLEAR SHADE



- Eliminates microleakage
- Cures clear - No yellow tint
- Durable, long-lasting, protective finish

Embrace Seal-n-Shine™ is a clear resin that provides a smooth finish, eliminates the final polishing steps, and bonds in a slightly moist field; it appears not to alter the anatomy or occlusion of the tooth and does not discolor the restoration. This material penetrates and seals the microporosities and cracks in the composite and seals the margins. The clear shade helps maintain

the shade of the composite used. It has been observed clinically and by scanning electromicroscopy⁴ (SEM) that Embrace forms a close association with tooth structure and integrates with the tooth in a way that is unique for a dental resin, resulting in a positive seal and a smooth margin that is better adapted to the anatomy of the tooth.



1 Etched enamel and composite restoration.



2 Seal-n-Shine™ applied to etched enamel and composite and light cured.



3 Provisional restoration before Seal-n-Shine™.



4 Provisional restoration after application of Seal-n-Shine™.



EMSNS

6 mL bottle Seal-n-Shine™, brush handle, 100 brush tips



SPARKLE

DIAMOND POLISHING PASTE

Vegetable fiber blend of cellulose

Contains diamond powder (5 to 6%)

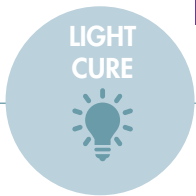
Does not splatter

Sparkle produces a glaze-like high luster finish on porcelain, gold, composite and metal. It does not splatter and washes off easily.



SPARK

Kit: 4 x 1.2 mL (1.4 gm) syringes



LIME-LITE

LIGHT CURE CAVITY LINER, CONTAINS HYDROXYAPATITE

Stimulates secondary dentin formation

Releases favorable calcium, hydroxyl, phosphate and fluoride ions

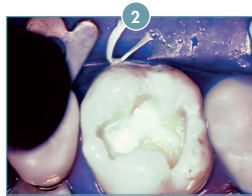
Chemically bonds to adhesives and composites

Specially formulated for use with today's adhesive dentistry, Lime-Lite contains hydroxyapatite in a urethane dimethacrylate resin. It releases calcium, hydroxyl, phosphate and fluoride ions,

which are known to be beneficial to tooth structure, to stimulate secondary dentin formation and to have cariostatic properties.



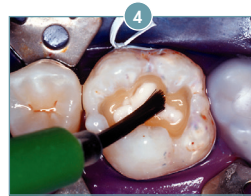
1 Place Lime-Lite in the cavity prep.



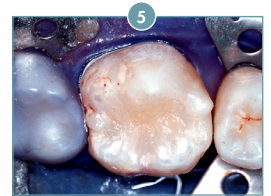
2 Light cure Lime-Lite 20-30 seconds.






3 Etch the cavity prep with Etch-Rite™ 38% phosphoric acid.



4 Apply DenTASTIC™ UNO™ to the moist dentin surface for light cure, or UNO + DUO™ for dual cure procedures.



5 Final restoration incrementally layered with composite.

	LIME	Kit: 4 x 1.2 mL (1.8 gm) syringes + 8 pre-bent tips	
	LIME-3	3 mL syringe	
	20L20	Pink, 20 ga x 1/2", Prebent Tips, pkg. 20	



ETCH-RITE

ONE GEL, MILLIONS OF APPLICATIONS

38% Phosphoric Acid

Mechanical maintenance offering optimum bonding

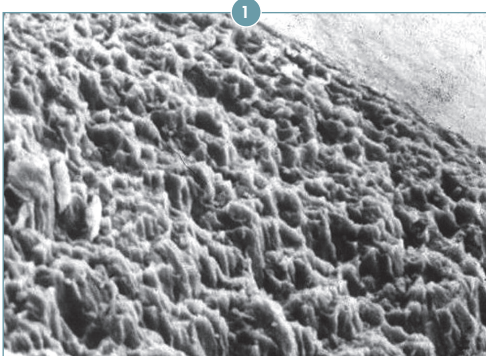
Excellent contrast

Etch-Rite™ is a soft, thixotropic gel with handling characteristics most preferred by clinicians. It dispenses through small gauge needles, stays where placed, washes off with ease, and provides the optimal etch pattern on dentin and enamel surfaces to ensure

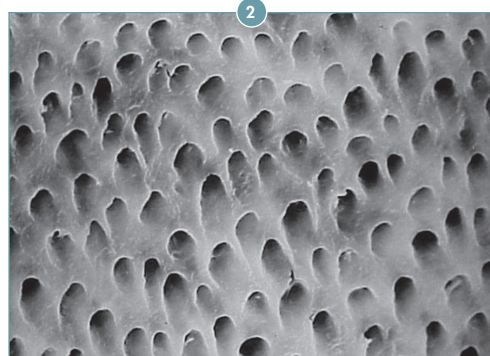
mechanical retention of bonding agents, restorative resins and resin cements. The blue gel is easily visible and the material is available in a wide variety of packaging options.







*SEM: Scanning Electron Microscopy



SEM* shows the etched enamel surface after a 20-second application of Etch-Rite™. The smooth area in the upper right corner was not etched.



SEM* of the dentin surface after a 15-second application of Etch-Rite™ shows removal of smear layer and opened dentinal tubules.

	ETCH	Kit: 4 x 1.2 ml (1.5 gm) syringes + 8 pre-bent tips	
	ET50	Jumbo Syringe Kit: 2 x 25 mL (64 gm) bulk syringes, +5 x 3 mL empty syringes + 50 pre-bent tips	
	ET50R	Jumbo Refill: 2 x 25 mL (64 gm) syringes	
	25B20	Light Blue, 25 ga x 1/2", Prebent Tips, pkg. 20	



ETCH-ROYALE

ETCH-RITE IN A CREAMIER FORMULA

37% Phosphoric Acid





Creamier consistency

Darker blue color

For clinicians who prefer a creamier gel that readily settles into dentin and enamel, but does not run, Etch Royale is the perfect choice. The darker blue color is easier to see in thin applications.

Etch Royale has all the same features as Etch-Rite™, but the consistency is slightly creamier than its famous sister product.



	ER	Kit: 4 x 1.2 ml (1.5 gm) syringes + 20 pre-bent tips	
	ER50	Jumbo Syringe Kit: 2 x 25 mL (64 gm) bulk syringes, +5 x 3 mL empty syringes + 50 pre-bent tips	
	ER50R	Jumbo Refill: 2 x 25 mL (64 gm) syringes	
	25B20	Light Blue, 25 ga x 1/2", Prebent Tips, pkg. 20	



SILANE

PREPARATION OF PROSTHETIC MATERIALS




Coupling agent

Strengthens bonding

Creates organo-mineral bridges

This single component material increases the bond strength of organic resins, such as composites and resin cements, to porcelain. Apply silane to the etched and dried porcelain surface.



	SIL	Kit: 4 x 1.2 mL (0.95 gm) syringes Silane + 8 applicator tips	
	SIL-3	3 mL (2.38 gm) syringe Silane	
	22DR15	Dark Blue, 22 ga x 1/2", Prebent Red Dropper Tips, pkg. 20	



PORCELAIN ETCH GEL

SUPERIOR CERAMIC SURFACE PREPARATION

9.6% Hydrofluoric Acid

Does not stain ceramics or composites

Superior quality

Proper surface preparation enhances bonding values of resins and resin cements to porcelain. These SEMs

demonstrate the effectiveness of a one-minute application of Pulpdent Porcelain Etch Gel on a glazed porcelain surface.



SEM* shows glazed porcelain surface BEFORE treatment.



SEM* shows glazed porcelain surface AFTER 1-minute treatment with Pulpdent Porcelain Etch Gel. Note the microscopic tags in the porcelain surface.

(Magnification 500X)
*SEM:
Scanning Electron Microscopy






This fractured PFM crown can be repaired intra-orally. Always etch porcelain surfaces of crowns, inlays and veneers prior to bonding.



A one-minute application of Pulpdent Porcelain Etch Gel prepares the surface for bonding. The exposed metal surface of this crown is abraded with a fine diamond.

Photos courtesy of Dr. Howard Glazer

	PEG	Kit: 4 x 1.2 mL (1.4 gm) syringes gel 1,4 g + 8 applicator tips	
	PEG-3	3 mL (3.54 gm) syringe gel	
	25B20	Light Blue, 25 ga x 1/2", Prebent Tips, pkg. 20	

PORCELAIN PREP KIT

ECONOMICAL KIT FOR PREPARING PORCELAIN SURFACES FOR BONDING

KOOL-DAM :

Heatless liquid dam and block out resin.

PORCELAIN ETCH GEL :

9.6% Hydrofluoric acid gel for etching porcelain surfaces prior to bonding.

DRY-RITE :

Promotes chemical drying of etched porcelain surfaces prior to applying Silane.

SILANE :

Increases the bond strength of composites and resin cements to porcelain.



1 Fractured porcelain.



2 Apply Kool-Dam to protect gingiva and porcelain.



3 Apply Porcelain Etch Gel to the porcelain for 1 minute.



4 Apply Dry-Rite then Silane to the porcelain and metal surfaces.



5 Apply the composite, finish, polish and apply Embrace Seal-n-Shine for perfect results.



PPK

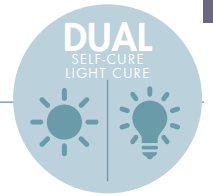
Kit: 1.2 mL syringe each: Porcelain Etch Gel, Kool-Dam, Silane and Drying Agent + 12 applicator tips



EMBRACE™ CEMENT

WetBond™

HYDROPHILIC AND BIOCOMPATIBLE SEALING



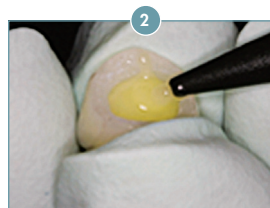
- Eliminates microleakage
- Releases phosphate and fluoride ions
- Self Adhesive - Moisture Tolerant

Embrace Resin Cement is the first self-adhesive resin cement that bonds to the slightly moist tooth. Embrace is a hydrophilic resin, not a glass ionomer, and is formulated to be fully compatible with the moist oral environment. Embrace forms chemical bonds to dentin and enamel, precious and non-precious metals, ceramics,

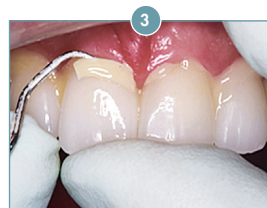
composites, and fiber posts. Bonding agents are not required; however, they can be used if desired. It is not necessary to etch dentin, but etching uncut enamel surfaces is indicated. Retention value for Embrace is 29.32 kg, which indicates that Embrace performs equal to or better than the leading cement brands.



1 Prepare teeth to receive restorations. Leave teeth slightly moist. No etching, silane or bonding agents are required.



2 Simply dispense cement directly into the restoration from the automix syringe.



3 Seat the restoration, light cure 1-2 seconds and remove excess cement.



4 The final result.

PHYSICAL PROPERTIES

Viscosity :	Medium	Retention value :	32 kg (non-threaded titanium post)
Compressive Strength :	44,500 psi / 307 MPa	Percent Solubility :	0.06%
Diametral tensile strength :	7,600 psi / 52 MPa	Film thickness :	12 microns

	EMCMR	Medium Viscosity Automix Syringe Refill: 7 gm cement, + 20 automix tips	
	A20	Automix Syringe Tips, pkg. 20	



GLASSLUTE

GLASS IONOMER CEMENT

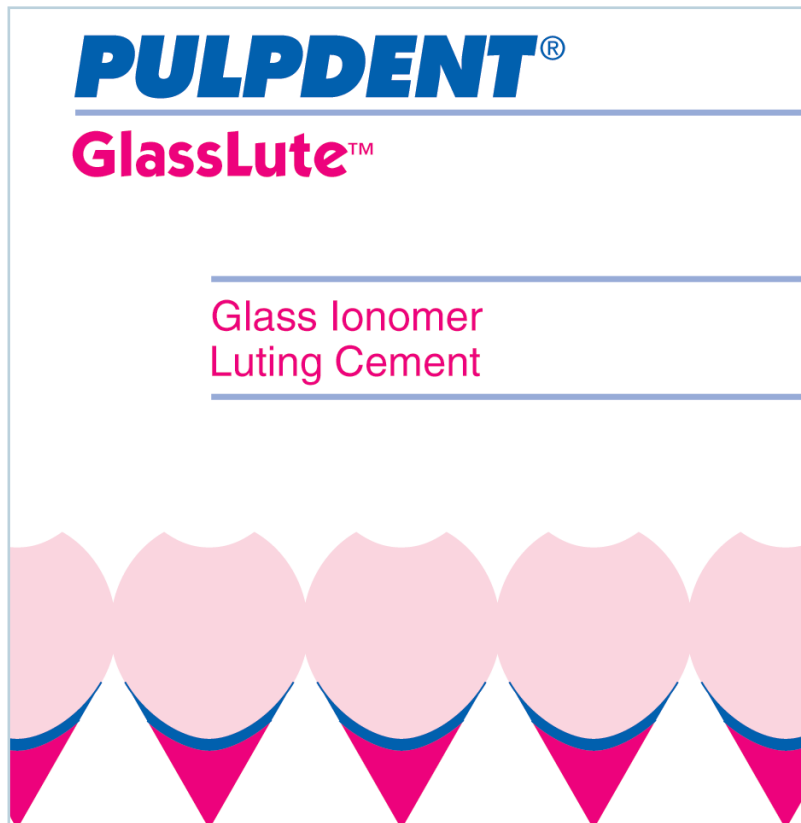
For cementing crowns, bridges and posts

High adhesion to tooth and restoration

Film thickness: 15 microns

GlassLute is formulated specifically to be the ideal glass ionomer cement for sealing crowns and bridges. Ultra-fine but ultra-strong,

its adhesion to dentin and its release of fluoride ions ensure the long-lasting integrity required for glass ionomer cements.



ILU

GlassLute Kit: 30g powder, 15 mL liquid, mixing pad, scoop



POLYCARB WATERSET

ANHYDROUS POLYCARBOXYLATE CEMENT

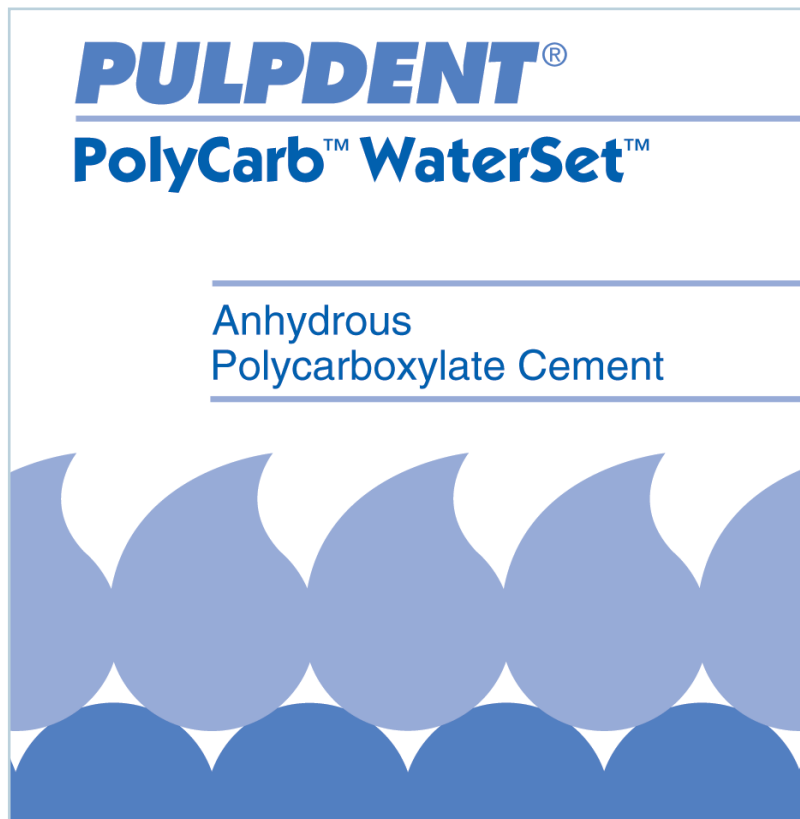
Recommended for permanent cementation of crowns or bridges

Non-irritating material

Polyacrylic-based cement

This non-irritating material is recommended for temporary and permanent cementation of crowns, bridges and inlays. Restorations hold securely but can be removed, if necessary. With this anhydrous cement, the polyacrylic acid is incorporated in

the powder. Just add water and mix. A thick mix does not flow down under tissue but instead rolls over the sulcus, providing easy removal of excess.



CPC

Kit, 60g powder, mixing pad, dropper bottle, scoop



EMBRACE™ PIT & FISSURE SEALANT

WetBond™

MOISTURE-FRIENDLY PIT AND FISSURE SEALANT



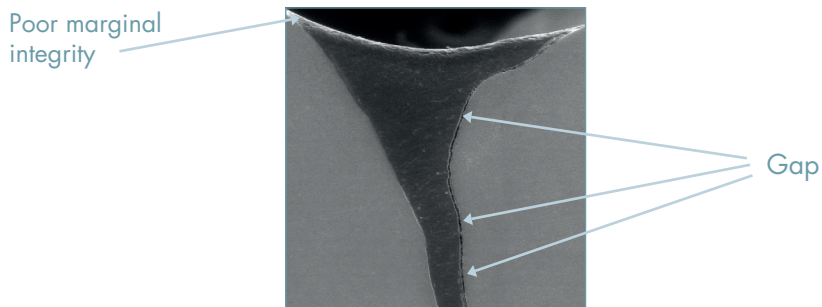
Fluoride releasing

Margin-free. No chipping. No staining.

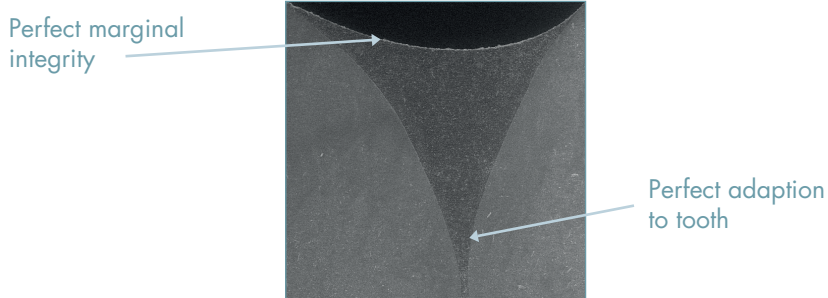
Tooth integrating. Seals against microleakage.

Embrace is remarkable for its ability to bond to the moist tooth, its sealing ability, and its adaptation to tooth structure. The margins are undetectable, and the long-term success has been reported in the literature. Independent research shows that Embrace compares favorably with glass ionomers, and is superior to other

resin-based sealants, when evaluated for remineralization capacity. Research also shows that Embrace has longer lasting antibacterial activity compared to other leading brands, especially against *S. mutans*. No other material compares or has all these advantages.



Leading Competitor



embrace™ wetbond™
pit & fissure sealant

This study assessed the clinical performance of Embrace WetBond Pit & Fissure Sealant in a pediatric dental practice. A total of 334 teeth sealed with Embrace WetBond Pit & Fissure Sealant were evaluated over a period of four to six years. After four to six years, 299 of 334 sealants were in excellent condition. Of the remaining teeth, 32 required resealing with no evidence of occlusal caries, and only three teeth developed occlusal caries. The sealed teeth were 99% caries free.

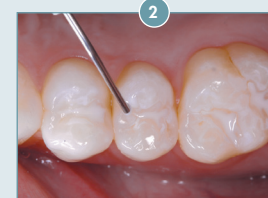
(Long-term Report by Howard E. Strassler, DMD and Joseph P. O'Donnell, DMD, MS)

PHYSICAL PROPERTIES

Compressive Strength :	34,800 psi / 240 MPa
Diametral Tensile Strength :	6,300 psi / 43.4 MPa
Percent Solubility :	0.06%
Film Thickness :	12 microns



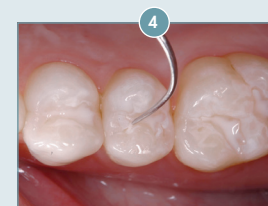
1
Clean teeth and apply Etch-Rite™ for 15 seconds.







2
Rinse and lightly dry. Leave teeth slightly moist, and apply Embrace Pit & Fissure Sealant to the moist teeth.



3
Light cure. Embrace cures with all lights.



4
After curing, the margins are undetectable with an explorer.

	EMS	Kit: 4 x 1.2 mL (1.9 gm) syringes sealant + 20 applicator tips, natural shade	
	EMSW	Kit: 4 x 1.2 mL (1.9 gm) syringes sealant + 20 applicator tips, off-white shade	
	EMS3	3 mL (4.72 gm) syringe, natural shade	
	EMSW3	3 mL (4.72 gm) syringe, off-white shade	
	22K20	Black, 22 ga x 1/2", Prebent Tips, pkg. 20	
	23R20	Red, 23 ga x 1/2", Prebent Tips, pkg. 20	



CXP =
CALCIUM,
XYLITOL AND
PHOSPHATE

EMBRACE™ VARNISH

WetBond™

MOISTURE
TOLERANT



UNSURPASSED FLUORIDE RELEASE

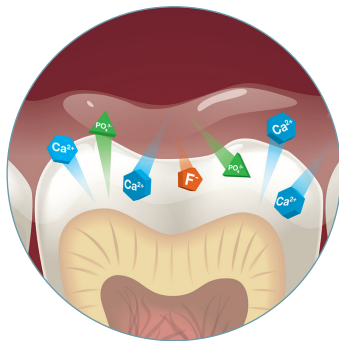
5% Sodium Fluoride with CXP

Bioavailable Fluoride, Calcium and Phosphate with Xylitol

Desensitizing effect

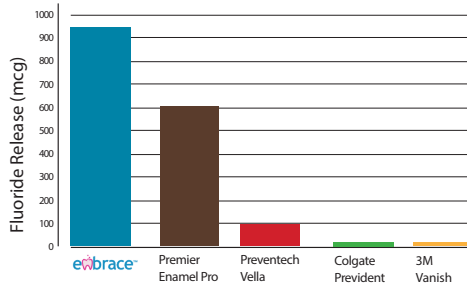
Not only does Embrace Varnish release more fluoride in 4 hours, it also releases bioavailable calcium and phosphate ions, the essential building blocks of teeth. The xylitol coating prevents the calcium and phosphate salts from reacting until they come in contact with saliva. Saliva dissolves the xylitol and releases the calcium and phosphate ions, which react continuously in saliva with the fluoride ions

to form protective fluorapatite on the teeth. By incorporating xylitol-coated calcium and phosphate in a permeable resin matrix that does not separate, Pulpdent has developed a sustained time-release varnish with uniform dosage that delivers 10 times more fluoride than the leading varnish brand. The pleasing taste ensures patient compliance.



Giving the tooth what it needs

4-Hour Cumulative Fluoride Release
In micrograms relative to 50.0 +/- 1.0 mg solid weight



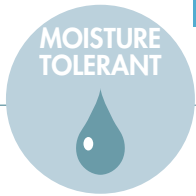
THE DENTAL ADVISOR Yapp R, Powers JM. Fluoride Ion Release from Several Fluoride Varnishes. Dent Advis Res Rpt 45:1, March 2012.

	FV50	Box of 50 x 0.4mL (0.42 gm) packets	
	FVT	Tube, 12 mL (12.6 gm)	



ORTHO-COAT

ORTHODONTIC SEALANT



Reduces or eliminates decalcification

Fluoride releasing

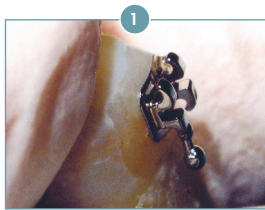
Prevents microleakage

Orthodontic brackets trap food and plaque. Since patients cannot clean under and around the brackets, carious lesions can form. The results can be disastrous. Ortho-coat coats the brackets and

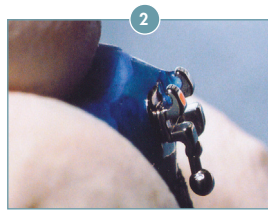
the teeth, preventing decalcification, staining and discoloration under the brackets.



If You've Seen This After Removing Brackets
You Need Ortho-Coat



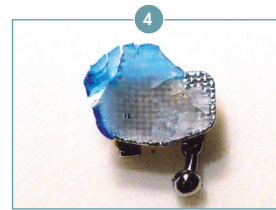
1 Shows orthodontic bracket bonded to a tooth and coated with Ortho-Coat after immersion in saline solution for two months.



2 Shows the tooth stained with 0.25% methylene blue after two-month immersion in saline solution.



3 Shows stained tooth after removal of coated bracket. Note lack of dye penetration under bracket. The white area shows the outline of the coating, not the bracket, which has a smaller footprint.



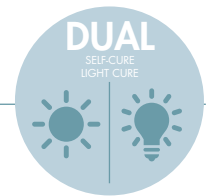
4 Shows underside of the stained bracket pad. Despite intense staining of the tooth and Ortho-Coat with methylene blue, there is no dye penetration or leakage beneath the bracket.

	OC	2 x 5 mL (6.25 gm) syringes + 20 applicator tips	
	23R20	Red, 23 ga x 1/2", Prebent Tips, pkg. 20	



DENTASTIC UNO • DUO

SIMPLIFIED DUAL CURE ADHESIVE



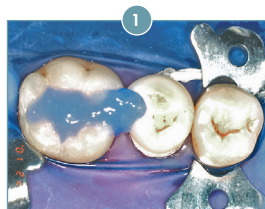
Moisture Tolerant

Exceptional bonding strength

Mono component 5th generation

For all direct bonding light cure applications. DenTASTIC UNO is an effective, single-component adhesive for bonding to dentin, enamel, porcelain, metal, composite and other resins.

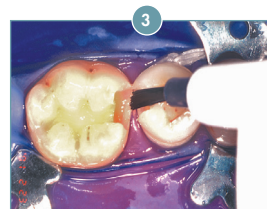
DenTASTIC DUO is the dual cure catalyst for DenTASTIC UNO. Use UNO and DUO for indirect restorations, core build ups, or whenever self-cure or dual cure capability is indicated.



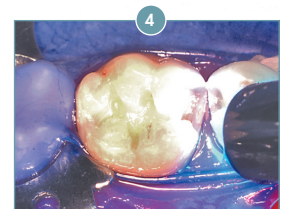
1 Apply Etch-Rite™ to the cavity prep for 15 seconds.



2 Rinse and leave dentin moist for wet bonding technique.



3 Use DenTASTIC™ UNO™ for light cure, or UNO + DUO for self-cure or dual cure applications.



4 Light cure for only 10 seconds.

PHYSICAL PROPERTIES : SHEAR BOND STRENGTH

DenTASTIC UNO
One-Step
Prime & Bond 2.1

34.2 MPa
32.6 MPa
31.8 MPa

Testing performed at Department of Restorative Dentistry, The University of Texas Health Science Center at San Antonio.
One-Step and Prime & Bond 2.1 are trademarks of Bisco, Inc. and Dentsply International Inc. respectively.

	UNO-R	6 mL bottle UNO	
	DUO	3 mL bottle DUO, dual cure catalyst for UNO	



EDTA

17% SOLUTION

FOR THE INSTRUMENTATION OF ROOT CANALS AND SMEAR LAYER REMOVAL

An effective chelating agent




Decalcifies canal walls

Buffered to a neutral pH

EDTA 17% Solution is buffered to a neutral pH and is an effective calcium binding or chelating agent used to facilitate instrumentation of root canals and for smear layer removal. It

decalcifies the canal walls making it easier to enlarge and shape the canal with files and reamers.



	EDTA-30	30 mL bottle	
	EDTA-60	60 mL bottle	
	EDTA-120	120 mL bottle	
	EDTA-480	480 mL bottle	



E
THYLENE

D
IAMINE

FILE-RITE

LUBRICANT FOR ENDODONTICS

17% EDTA gel with lubricant



Minimizes binding and breaking of files

Decalcifies canal walls

File-Rite is an effective chelating agent in a semi-gel form with lubricant to facilitate instrumentation of root canals and help prevent binding and breaking of files. With 17% EDTA,

File-Rite decalcifies canal walls. The convenient syringe allows direct dispensing into canals using 30-gauge x 1" (2.5 cm) needles. File-Rite rinses out easily with irrigation.



	FILE	4 x 5 gm syringes + 50 x 30-gauge needles	
	30F50	Orange. 30 ga x 1", straight Tips, pkg. 50	



PREP-RITE RC

FACILITATES INSTRUMENTATION OF THE ROOT CANAL

15% EDTA gel with lubricant

Neutral pH

Contains peroxide for effervescing action

For picking up on files or filling the access cavity using the traditional technique, Prep-Rite is an effective chelating agent that softens canal walls and facilitates instrumentation of the root canal. Peroxide

provides an effervescing action and lubricant helps prevent binding and breaking of files. A viscous gel with 15% EDTA, Prep-Rite has a neutral pH and rinses out easily with irrigation.



PRC

4 x 5 gm syringes



CALCIUM

TEMPCANAL ENHANCED

TEMPORARY CALCIUM HYDROXIDE ROOT CANAL TREATMENT PASTE

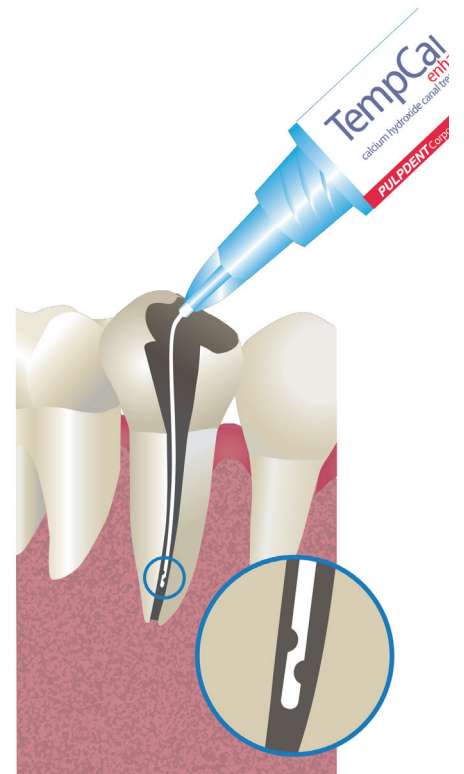
Enhanced formula – will not clog 27-gauge needle

Non-drying paste – extended shelf-life

pH >12 - disinfects canals, prevents flare-ups

TempCanal Enhanced is easier to use, does not dry and provides the full benefits of calcium hydroxide in root canal therapy. For routine use as an intracanal dressing between office visits to cleanse the canal and prevent flare-ups, TempCanal Enhanced can also be used for complicated cases involving traumatic injury

and other instances where extended calcium hydroxide therapy is indicated. Flows through 27 gauge x 25 mm endodontic irrigation needles with 2-side-vents for controlled placement and uniform coating of canal walls, and with closed end to prevent overfills.



	TEK	3mL syringe + 12 endo irrigation needles (27-gauge x 1", 2-side-vent)	
	TE3	3mL syringe	
	TE4	4 x 1.2mL syringes + 20 endo irrigation needles (27-gauge x 1", 2-side-vent)	
	TE20N	27-gauge x 1" (0.4mm x 25mm), 2-side-vent - Pkg. of 20	



HYDROXIDE

MULTI-CAL

CALCIUM HYDROXIDE BASE / LINER

All purpose, non-setting calcium hydroxide paste




For root canal therapy and vital pulp therapy

40% (±2%) calcium hydroxide - pH > 12

Multi-Cal is a smooth, creamy calcium hydroxide preparation recommended for all clinical applications where calcium hydroxide is indicated. Multi-Cal can be used for temporary and intermediate root canal therapy, direct pulp capping, pulpal

curettage, pulpotomy, dentin bridge formation, cavity lining and indirect pulp capping. Multi-Cal quiets «hot teeth», promotes periapical healing and stimulates apexification.



	MULTI	Multi-Cal Kit, 4 x 1.2 mL syringes + 8 applicator tips (22 gauge x 1/2")	
	MULTI-3	Multi-Cal 3 mL syringe	
	22D20	Dark Blue, 22 ga x 1/2", Prebent Tips, pkg. 20	



CALCIUM HYDROXIDE

FORENDO PASTE

CALCIUM HYDROXIDE WITH IODOFORM FOR ROOT CANAL THERAPY

Strong antibacterial action - pH > 12

Non-setting

Radiopaque

A calcium hydroxide paste with iodoform in a silicone oil base, Forendo Paste is a dressing for routine use between office visits to disinfect root canals and for complicated cases when extended calcium hydroxide therapy is indicated. Forendo Paste can be used to treat infected root canals, abscesses and periapical lesions,

traumatic injuries, root resorption, fractures and perforations, pus, hemorrhage, exudation and weeping canals. Forendo Paste disinfects canals, prevents flare-ups, promotes periapical healing and stimulates apexification and apexogenesis.



FORE

Forendo Paste, 2.2 gm syringe + 20 applicator tips



ROOT CANAL SEALER

ENDODONTIC FILLING MATERIAL

Tissue compatible

Bacteriostatic and radiopaque

For all permanent filling techniques

Pulpdent Root Canal Sealer meets ANSI/ADA specification 57 for endodontic filling material. The powder contains zinc oxide, zinc stearate, calcium phosphate and barium sulfate. The liquid contains eugenol and Canada balsam. A thick mix eliminates free

eugenol and ensures patient comfort. Root Canal Sealer does not shrink upon setting and resorbs with roots of deciduous teeth. It can be drilled for a post and can be removed with mechanical and hand instrumentation, if necessary.



COMPATIBLE WITH ALL PERMANENT FILLING TECHNIQUES :

- Pressure syringe technique
- In conjunction with solid core
 - Paste filler / Lentulo
 - Lateral condensation



RK

Root Canal Sealer Kit : 15cc powder, 7.5mL liquid, mixing pad, scoop



WONDER ORANGE

ALL NATURAL CLEANING SOLUTION

100% natural

Citrus essences

Cleans surfaces, instruments and skin

For removing zinc oxide dental cements, impression materials and waxes from vinyl furniture, face and hands. Also used for cleaning the Pulpdent Pressure Syringe. No artificial ingredients.



WO-8

Wonder Orange, 8 oz. (236 ml)



PERIO CARE

PERIODONTAL DRESSING

Doesnot dissociate

Neutral odor and taste - Patient pleasing

Metal oxide and vegetable oil base

PerioCare is a two-paste, highly elastic periodontal dressing that sets resiliently hard and does not chip or fall apart in the mouth. It assists in tissue placement after periodontal surgery and provides durable protection of tissue. After mixing equal amounts of part

one and part two, PerioCare is ready to pick up with wet fingers in about 45-60 seconds. It has a working time of 4-5 minutes and sets in 15 minutes.



PC

PerioCare: 90mL tube paste, 90 mL tube gel, mixing pad



LIGHT
CURE



KOOL-DAM

HEATLESS LIQUID DAM & BLOCK OUT RESIN

MOISTURE
TOLERANT



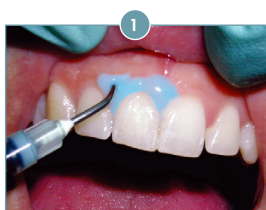
Does not produce heat when cured, ensuring patient comfort

Remains rubber-like and flexible after curing

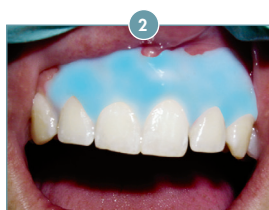
Tear resistant - Easily removed

Kool-Dam is formulated to eliminate the problems associated with light cure liquid dam materials. Apply Kool-Dam on the gingival or tooth surface and light cure prior to bleaching, sandblasting, applying porcelain etch or other procedures requiring intraoral protection. Also use Kool-Dam to block out undercuts prior to

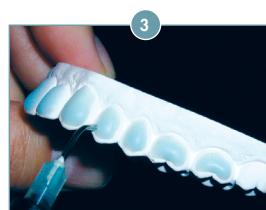
taking impressions. Kool-Dam remains cool during light curing and remains flexible when cured. It is conveniently dispensed from a syringe using small applicator tips for accurate placement, and is easily removed upon completion of the procedure.







Kool-Dam is placed to protect the gingiva. It light cures in 20 seconds.



Kool-Dam is placed to protect soft tissue prior to bleaching.



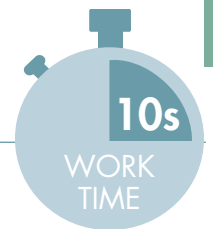
Kool-Dam is placed on the model prior to making a custom bleaching tray.

	PD	Kit: 2 x 3 mL syringes + 10 pre-bent tips, 18 ga + 10 pre-bent tips, 20 ga	
	18G20	Green, 18 ga x 1/2", Prebent Tips, pkg. 20	
	19K20	Black, 19 ga x 1/2", Prebent Tips, pkg. 20	
	20L20	Pink, 20 ga x 1/2", Prebent Tips, pkg. 20	



SNOOP

CARIES DETECTING DYE



Dark blue color provides strong contrast with dentin and the pulp

Allows accurate detection

Increased reliability, no error

Cariou dentin is made up of two distinct layers :

- The layer of outer infected dentin is soft, discolored, non-vital, nonsensitive, cannot remineralize, should be removed and is stained by Snoop in 10 seconds.
- The layer of inner uninfected (affected) dentin is not infused with bacteria, is capable of remineralizing, should not be removed and is not stained by Snoop in 10 seconds.

Snoop™ distinguishes between outer infected and inner affected dentin in 10 seconds. Snoop identifies infected carious dentin and helps the practitioner preserve vital dentin that should not be removed. The caries detecting dye stains the denatured collagen that is only present in the outer infected dentin. This is an important tool for conservative dentistry.



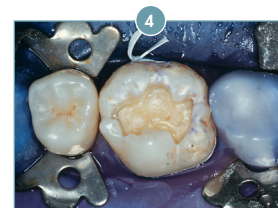
Obvious occlusal caries.



After removing obvious caries, apply SNOOP for 10 seconds.



Rinse and remove only the stained infected dentin.



Re-apply SNOOP and rinse. No further staining means no remaining infected dentin.



SNOOP

12 mL bottle



PIC-N-STIC

A HANDLE FOR SMALL OBJECTS

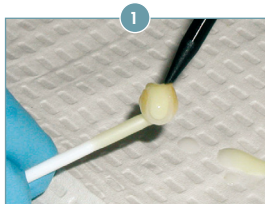
2 mm in diameter, 5 mm long

Adhesive tip on one end

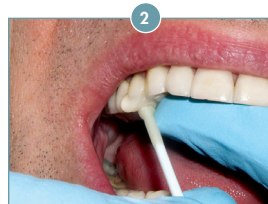
Many practical uses

The original "handle for small objects" has numerous applications from dentistry to model making to replacing hearing aid batteries. The 2" long stick is 2 mm in diameter with an adhesive tip on one end. By simple pressure, pick up small items such as prosthetic

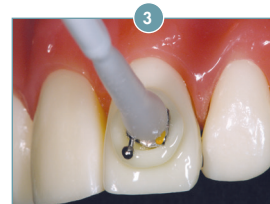
elements for easier handling and greater precision in their placement. The adhesive does not transfer to the item. To release, simply twist the stick slightly.



Embrace Resin Cement is placed on an inlay seated on a Pic-n-Stic.



Pic-n-Stic assists in placement of the inlay.



Pic-n-Stic is used to place an orthodontic bracket.



PIC

Box of 60



FLECTA

DISPOSABLE MIRRORS

Convenient

Hygienic

Fun for children

The innovative Flecta design has many advantages. The unbeatable, low single-use price allows you to have a shiny new mirror for every patient - no more scratches and blotches. The highest quality disposable mirror available, Flecta's elongated shape has a 40% larger viewing surface. The pull tab easily

removes the protective film from the mirror surface. The mirrors are double-sided with back side light reflector. The light weight comfort handle reduces stress and fatigue and the offset handle design is a better tongue guard and cheek retractor. Flecta mirrors can be given to patients as take-home gifts.



40% More Viewing Area.
No more scratches and blotches.



Expanded posterior view using The Flecta Disposable Mirror.



FLEC	Flecta, Box of 200	
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T-BANDS

MATRIX BANDS

These self-contained matrix bands do not require matrix retainers. "T"- Bands are made of soft, adaptable brass or stainless steel matrix material (.002"/.05mm thick) and are available straight,

curved, narrow (5/32"), wide (1/4") and in assortments. "T"- Bands are especially popular for use in pediatric dentistry.





	BTBS/N	Brass Straight /Narrow (5/32") - Box of 100	
	BTSS/N	Stainless Straight /Narrow (5/32") - Box of 100	

PRESSURE SYRINGE

ENDODONTIC ACCESSORY



	PSO	Pressure Syringe	
	PSN22	12 blunt needles, 22 ga	
	PSN25	12 blunt needles, 25 ga	
	PSN30	12 blunt needles, 30 ga	



BRUSH TIPS AND HANDLES

APPLICATION ACCESSORIES



	HAN	Brush handle, 5" length, random colors	
	BR	Brush tips, 24mm length, bag of 100	

SYRINGE STAND

FOR THE ORGANIZATION OF SYRINGES

This clear lucite syringe organizer holds up to 30 dental syringes. Accommodates various size syringes from small 1.2 mL to composite syringes. Attractive, space saving design provides easy access and convenient storage.



	STAND	Syringe Stand: 8" x 4 1/4" x 4 1/2"	
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MIXING WELLS



FOR USE WITH ALL DENTAL MATERIALS

Available in two-well and four-well configurations

Perforated sheets for convenient handling and storage

Made from a high molecular weight polymer



	MW-2	Disposable Mixing Wells, two-well configuration, box of 480	
	MW-4	Disposable Mixing Wells, four-well configuration, box of 420	

MINI-BOWLS





FOR MIXING ACRYLIC

Non-stick silicone

Suction cup on bottom holds bowl to the table

Sterilize by any method



	B-MS3	Small, 8 cc, set of 3 (1" diameter)	
	B-MM2	Medium, 30 cc, set of 2 (1.625" diameter)	
	B-ML	Large, 80 cc, one each (2.25" diameter)	
	B-MA	Assorted: 2 small, 1 medium, 1 large	



CORE FORMS

FOR PROSTHETIC CORES

Transparent for fast light curing

Tab on the top for easy pick up with cotton pliers

Clear polyethylene does not stick to core material



	HCF-AS	Core Forms, box of 64 assorted, 16 each size : S, M, L, XL	
	HCF*	Core Forms, box of 64, all one size	* Specify size : Small (1), Medium (2), Large (3), XLarge (4)

CODE RINGS

IDENTIFICATION AND ORGANIZATION OF INSTRUMENTS

Medical grade silicone

Sterilize by any method

11 colors (standard and large)



STANDARD SIZE: 1/8" ID, 1/8" wide

LARGE SIZE: 7/32" ID, 5/32" wide

	CR-AS	Pkg. of 100, 11 assorted colors	
	CR*-50	Pkg. of 50, all one color	

	CR-ASL	Pkg. of 60, 7 assorted colors	
	CR*-60L	Pkg. of 60, all one color	

Couleurs disponibles : * (1) white, (2) yellow, (3) blue, (4) red, (5) green, (6) black, (7) gray, (8) brown, (9) orange, (10) mauve, (11) pink



A P P L I C A T O R

File-Rite™ semi-gel



30F50

Orange, 30 ga x 1", straight Tips, pkg. 50

Etch-Rite™
Etch Royale™
Porcelain Etch gel™



25B20

Light Blue, 25 ga x 1/2", Prebent Tips, pkg. 20

embrace™ wetbond[®]
pit & fissure sealant
Ortho-Coat™



23R20

Red, 23 ga x 1/2", Prebent Tips, pkg. 20

Multi-Cal™



22D20

Dark Blue, 22 ga x 1/2", Prebent Tips, pkg. 20

embrace™ wetbond[®]
pit & fissure sealant



22K20

Black, 22 ga x 1/2", Prebent Tips, pkg. 20

Silane™



22DR15

Dark Blue, 22 ga x 1/2", Prebent Red Dropper Tips, pkg. 20

KOOL-DAM™
Lime-Lite™



20L20

Pink, 20 ga x 1/2", Prebent Tips, pkg. 20

KOOL-DAM™



19K20

Black, 19 ga x 1/2", Prebent Tips, pkg. 20

Kleer-Veneer™
KOOL-DAM™



18G20

Green, 18 ga x 1/2", Prebent Tips, pkg. 20

TempCanal™
enhanced



TE20N

27-gauge x 1" (0.4mm x 25mm), 2-side-vent, Pkg. of 20



spee-dee® build-up



FD20

Automix Cartridge Tip +
Intra-Oral Tip, pkg. 20

Tuff-Temp™ Plus 50ml



FSB20

Automix tips,
pkg. 20

Tuff-Temp™ Plus 5ml
ewbrace™ CEMENT
ACTIVA BioACTIVE™
CEMENT



A20

Automix Syringe
Tips, pkg. 20

A50

Automix Syringe
Tips, pkg. 50

ACTIVA BioACTIVE™
RESTORATIVE
ACTIVA BioACTIVE™
BASE/LINER
ACTIVA BioACTIVE™
CEMENT



A20N1

Automix Tips, clear,
with bendable
20-gauge metal
cannula – pkg of 20

ACTIVA BioACTIVE™
RESTORATIVE



AD20T

Automix Tips, clear
+ short intraoral tips
(IOT) - pkg of 20

ACTIVA BioACTIVE™
RESTORATIVE



AD20R

Automix Tips, clear
+ long, narrow
intraoral tips
(IOR) – pkg of 20

ACTIVA BioACTIVE™
RESTORATIVE



AS20

Automix Tips, clear,
straight, tapered –
pkg of 20

A50N1

Automix Tips, clear,
with bendable
20-gauge metal
cannula – pkg of 50

AD50T

Automix Tips, clear
+ short intraoral tips
(IOT) – pkg of 50

AD50R

Automix Tips, clear
+ long, narrow
intraoral tips
(IOR) – pkg of 50

A50

Automix Tips, clear,
straight, tapered –
pkg of 50

HUMANITARIAN EFFORTS



Founded in 2007, Mil Milagros works in partnership with communities in rural Guatemala to prevent malnutrition and hunger and to improve children's health and education. They partner with local public schools to implement oral health care and hygiene and have trained 90 mother and grandmother volunteers to provide oral hygiene instruction and to apply fluoride varnish as part of its program. More than 120 teachers also have been

trained to support the daily tooth brushing programs that are part of each school day. "The Embrace varnish that Pulpdent provides to the children, along with regular tooth brushing by the children, are essential to the success of the 'Healthy Schools' program that we implement in partnership with our mother and grandmother volunteers. With Pulpdent's help, we are improving the children's health and well-being.

This is critical as few if any of our children have access to a dentist," remarked Margaret Blood, Founder and Executive Director of Mil Milagros. Pulpdent Corporation is proud to partner with Mil Milagros in providing preventive oral health care and education to 1,000 children by generously donating EMBRACE Fluoride Varnish for use by the trained mothers, grandmothers, and teachers.



Oral Health America's Smiles Across America® (SAA), first established in 2004, addresses the most common preventable health epidemic our children face: tooth decay. OHA supports school-based and school-linked sealant programs nationwide to provide preventive oral health services and education to children who may not have access to regular care.

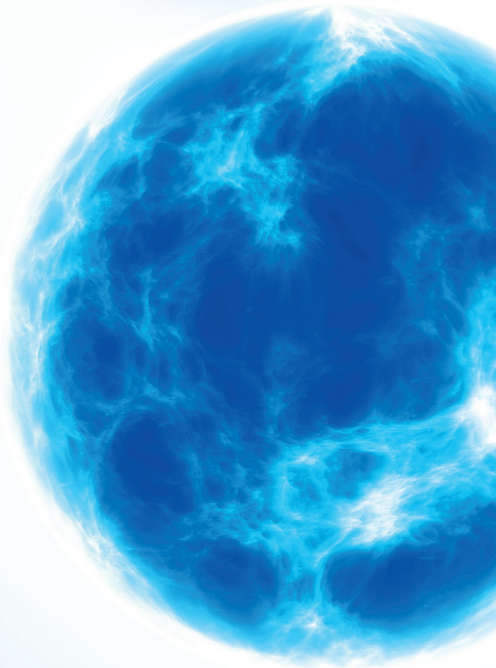
SAA efforts include: The Product Donation Project, which facilitates distribution of donated dental products; Webinars and Technical Assistance to enhance and support SAA Partner programs; and Grant Funding to selected programs nationwide providing preventive oral health services in school based and school linked settings.

Pulpdent Corporation has been an active and generous donor to the Product Donation Project since 2007. It was then that during its' 60th anniversary, Pulpdent made a pledge to donate 60,000 sealants and etc. Product donations have expanded to include fluoride varnish, Flecta mirrors and Embracelets. Pulpdent is proud to continue to support the wonderful work being done by SAA partners.

For the last 25 years, Dr. Sherwin R. Shinn has dedicated his life to providing oral health care to underserved people around the world. For World Wide Smiles (World Wide Smiles Inc.) was co-founded in 2008 by Dr. Sherwin Shinn, DDS and Faria Shinn to alleviate suffering from dental disease and facilitate disease prevention, education and practice and to provide dental and maternal/infant health care, disease prevention education, and necessary supplies to underserved populations.

Pulpdent Corporation has supported Dr. Shinn and his mission by providing ACTIVA restorative material, EMBRACE pit and fissure sealant and EMBRACE fluoride varnish unit doses. In addition, Larry Clark, Pulpdent Clinical Director has accompanied Dr. Shinn on mission trips to Jamaica to provide technical assistance and support.





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