

DiamondLite™

Advanced Semi-Crystalline PolyCeram Nanotechnology

Key advantages include:

- Unrivaled Aesthetics
- Wear Resistance similar to Natural Tooth
- Ultimate Handling Characteristics

Indicated for:

- · Class I, II, III & IV Restorations
- Aesthetic direct laminate veneers

Refill 20 x .25gr. Indi-Dose. \$84.00

Refill 5gr. Syringe \$75.00

DiamondBond 001TM

THE ULTIMATE IN BONDING

Single-Step, Self-Etch, Prime&Bond, Universal Adhesive System.

7th Generation Bonding

- Mimics the properties of natural tooth structure
- Delivers superior adhesion
- Less Post operative sensitivity



DiamondCrown™

The Elite of Dental Restoratives
Speciacular Esthetics & Peak Performance

- · Strong Exceptional Fracture Resistance
 - Tough Shock Absorbing
 - Ultimate Longevity Cyclic Fatigue Resistant
- Wear Resistant Similar to Natural Dentition
- Excellent Marginal Integrity
- Superb Color Stability & Accurate Shade Match
- Specular Reflectance High Gloss & Luster Value
- Excellent Tissue Biocompatibility

For Unrivalled strength and cosmetic results this unique PolyCrystalline NanoCeram dental restorative and Prosthodontic material is formulated in: (99) Vita-Equivalent shades/colour

5gr Syringe Refill \$89.95

DiamondFlow^{IM}

OUTSTANDING STRENGTH

Flowable PolyCrystalline

- Superb bonding integration for maximum adhesion
- Highly reinforced yet extremely flowable
- Unique controlled flowable technology
- Class V, Cervical Erosion, Tunnel preps, Block-out Material, Base, Liner



The Most Versattle Restorative

Refill Syringe 5gr.

\$**75.**95

DiamondLink™ 2 F/C

• Dual luting Cement can be used as a flowable Base Cavity Liner.

 Fast Cure Base Cement Super High Toughness (shock absorbing)

Master Kit **\$575.**00 Syringe Base 5gr

Refill Kit \$395.00 \$75.00

Catalyst 5gr (A2/B1/B3) \$75

DRM Restoratives combine microcrystalline PEX resin matrix and high purity organically bridged glass-ceramic nanofillers to provide a superior level of shock absorption, wear resistance, fracture toughness and diametral tensile strength. There is no Better Restorative Materials Available.





DiamondCrown™ DC-50

Single Step Direct Restorative

Anterior/Posterior Dental Filling Material - Class I, II, III, IV - (18) Colors: A1-D4(16), Neutral(1) & Incisal(1) Visible Light Cure(VLC), a DiamondCrown formulation in Mid-Range(OU-50) Opacity for Direct Fillings. This New Formulae offers Superior Handling/Manipulation Characteristics: Carving, Packing, Condensing and Anatomical Contouring, improved Polishability/Gloss Value and Surface Hardness. The Refractive Index of DC-50 provides for a simplified Single-Step (Universal) Core/Dentin/ Enamel(All-in-One) Chairside placement coupled with improved properties.

5gr Syringe Refill \$94.00

DiamondCrown™ Ceramo F/X Repair Kit

Chairside Universal Dental Ceramo/Metal Repair System for Ceramic, Porcelain, Metal, Composite & Acrylic Repairs - VLC & DC. Porcelain Fracture Repairs w/ or w/out Metal Exposure, Reinforced Ceramic Fracture Repair, Zirconia-Core Buildup, Composite Fracture Repairs and Augmentation & Acrylic Repairs. This Novel Formulation allows for Restoration, Reconstruction & Rehabilitation of the most Optimal Stratification of Tri-Dimensional Esthetics - Opacity/Transclusency(Value/Refractive Index), Chroma(Color/Shade)) & Hue(Tint) coupled with Superior Functional-Performance and Ultimate Bond-Strength to Porcelain/Ceramic/Alloy/Composite/Acrylic - Interfaces.

ONLY \$795.00 The Ultimate Office Repair Kit





RESTORATIVES

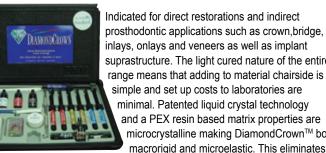


In terms of Strength, Flexibility, Shrinkage,

Wear & Biocompatibility there is NO BETTER

RESTORATIVE MATERIALS AVAILABLE!

DiamondCrown™ - direct/indirect restorations



Indicated for direct restorations and indirect prosthodontic applications such as crown.bridge. inlays, onlays and veneers as well as implant suprastructure. The light cured nature of the entire range means that adding to material chairside is simple and set up costs to laboratories are minimal. Patented liquid crystal technology and a PEX resin based matrix properties are microcrystalline making DiamondCrown™ both

the problems inherent with Bis-GMA or UDMA amorphous and brittle resins. With the same wear rate and hardness as human enamel, low water sorption and shrinkage rates, and enhanced diametral tensile strength DiamondCrown™ is the closest thing to tooth available to date. A highly biocompatible nonmetallic dental restorative material and an advanced bonding system that actually makes Polypeptides link to dentin. The DiamondCrown™ MasterKit incorporates DiamondBond 001 to ensure premium results every time.

ChairSide Master Kit ONLY \$875.95 Refill 5gr. Svringe \$89.50

For unrivalled cosmetic results this unique Microcrystalline Nanohybrid PolyCeramic dental restorative material is available in 16 Vita shades plus various incisal effects and characterization stains. There are also 9 opacity level/gradient ranging from 'metal opaques' (opacity units = 100) through to 'Incisal transparent' (opacity units = 5).

Strong and Tough

Shock Absorbing

Wear Resistant

Kind to Natural Tooth

High Lustre/Gloss Value

Superior Aesthetics

Superhydrophobic (Colour Stable)

Excellent Biocompatibility

from the revolutionary liquid crystal based DiamondCrownTM Polyceramic material



Intra-Oral Post-Op. - Superb Aesthetic Vitality and Note: Lack of Plaque Adhesion and Excellent

		Excellent Biocompatibility			Gigival Tissue Response		
PROPERTY	DIAMOND CROWN	ADA/ISO Criteria	Tooth Enamel/Dentin	Gold	Porcelain		
Diametral Tensile Strength (MPa)	79	34	70	N/A	35		
Biaxial Flexural Strength (MPa)	231	52	145	186	68		
Compressive Strength (MPa)	552	N/A	393/290	166	379		
Fracture Toughness (Kicsr) (MPa m ^{-1/2})	2.2	N/A	1.7	2.2	0.5		
CyclicFatigueResistance:5Hz,5,000,000 cycles,800 N	Y			Y	N		
Catastrophic Strength	> 4,000		200/800, < 1,500	< 2,000	< 1,000		
OCA - Occlusal Contact Area (N-Newtons) (MPa)	> 500		9 /31-41 A/P <145	< 200	< 70		
Bond Strength (MPa) / (Alloy-substrate)	35				12-17 PFM		
Wear Resistance (µm/year)	3	50	3-5	3-5	" wears tooth "		
Water Sorption (%wt.) (µg/cm³)	0.25	0.70	N/A	N/A	N/A		
Polymerization Shrinkage (% linear)	0.20	N/A		1.56	17		
Linear Coefficient Thermal Expansion LCTE - (ppm) (mm/mm/°C x 10°)	15	N/A	11.4	14.2	14		
Ra – Profilometry: Average Surface Roughness (nm)	3	N/A	5	15	15		
VHN Surface Hardness @ 3mm	110	60	210/80	80	475		
Depth of Cure (mm)	5.5	2.0	N/A	N/A	N/A		
Biocompatability	Excellent	Moderate		Excellent	Moderate		
Cytotoxicity (%)	0	40		0	25		
Polishability	Very Good	N/A	Very Good	Very Good	" N/A-Glazed "		
Shades (Vita)	92 Vita	N/A		1	Vita		
Particle Size	0.25-0.60 ìm	N/A		N/A	N/A		
Microns (ìm), Nano (nm)	(+) 7 nm						
Filler Weight (%), Fw	80.0	50.0					
Filler Volume (%), Vf	74.0	30.0					
Resin / Matrix	Crystalline - PEX	N/A	Crystalline - HA				

DiamondLite™ - direct restorations

The clinician looking for a cost effective, simple to use, alternative without sacrificing the exceptional strength and resilience of PEX based

iamonde Diamond products. Light-cured and available in 16 optimized Vita shades: A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 and 4 SuperBrite colors: XL, L, M, OPQ

Low Cost

Master Kit Indi-Dose

High Strength

W Low Shrinkage

Low Water Sorption

Master Kit Syringe ONLY \$575.95

Refill 5gr. Syringe

Refill 20 x .25gr. Indi-Dose. \$84.00

RESTORATIVES

Drawoodlask

Diamondlink"2

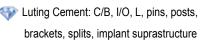
PROPERTIES

Macrorigid/Microelastic; stress-	Frac. Toughness 1.6		
dissipating interface	MPa•m-1/2		
Injectible luer-lock dispensing delivery system	Yes		
Biocompatible and non cytotoxic	Index Reactivity 0		
Degradation/Solubility	Superhydrophobic		
High-Fracture Resistance:			
Diametral	8,555/21,025 (59/145)		
Tensile/Flex. Strength psi (MPa)			

		_
High Marginal Integrity	.065% Linear Shrinkage	
Esthétique	Available in Vita. Equivalent shades: Trans. B1, Natural A2, Yellow B3 (tooth-like refractive index)	٥
Radiopaque	Yes	,
Light, Auto, or Dual- cure	Light, Auto, or Dual-cure	A
Ideal Film thickness	13µm	

DiamondLink™ 2 Fast Cure - flowable Polyceram and Luting cement





Pit/Fissure Sealant

Class V Cervical Erosion site restorative

Universal-Link; Composite, Acrylic, Metal, Enamel, Dentin



Post-Op.: 3 Unit DiamondCrown Posterior Bridge, Alloyless-Fiberless Flawless Biomechanics. A Balance of Microelasticity and Macrogigidity. DiamondBond-Link Adhesive Interfaced



characterized. Simulated Enamel-Like Wear Resistance

DiamondBond™ 001 - 7th Generation bonding system



DiamondBond 001 creates durable adhesion with enamel, dentin, porcelain and metals.

Can be used with direct fillings of C&B applications and will bond with dry or moist dentin in an equally effective manner. Ultra-fine film thickness allows maximum bond strength with high resistance to fracture.



Triple Action Bonding





Ideal with DiamondCrown, DiamondLite, and DiamondLink

This highly biocompatible 7th generation universal bonding system consists of:

ONLY

A. DiamondBond Conditioner 7cc, DiamondBond 001 Light Cure Adhesive 7cc and for optional use a Dual Cure Activator 7cc. DiamondBond forms a biochemical as well as physical bond with dentin.

B. DiamondBond 001 also contains HEMA – a hydrophyllic monomer which allows proper wettability and penetration of

dentin tubules to assure bonding in a moist environment.

C. The crystalline structure of the DiamondBond 001's PEX adhesive resin, gives a high fracture toughness (shock absorbing character) to the bonding layer that virtually eliminates microcrazing and delamination resultant from cyclic masticatory fatigue. This unique chemistry helps form a permanent seal that reduces post-op. sensitivity. Hybridized interface, a barrier to microgap formation and microbial invasion.

DiamondBond 001 Kit

Conditioner 7cc

Universal One Step Adhesive Base 7cc Universal Dual Cure Adhesive Catalyst 7cc \$49.95

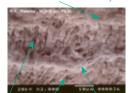
\$215.⁰⁰

\$**94.**95

total adhesive thickness ~ 5 µm interface. marginal integrity = thin, tough, microgap-free



DB 001 - PEX / HEMA adhesive interface



dentin collagen

Comparative Analysis-Dental Bonding Systems

Brand Name	Diamond Bond ⁰⁰¹ (7th Generation)	Single Bond	Prime & Bond	Syntac	Tenure Quick	One Step	Optibond Solo
Manufacturer	DRM	3M	Dentsply Caulk	Ivoclar	Denmat	Bisco	Kerr
BOND STRENGTH (MPa)							
Dentin	37	15	18	16	20	20	19
Enamel	27	27	24	22	28	28	23
Porcelain	30	17	17	14	19	19	17
Precious Alloys	23	6	5	8	10	10	6
Composite	34	18	14	10	20	22	18
OTHER PROPERTIES							
Film Thickness	5	35	10	10	25	20	10
Shrinkage (Linear %)	1.0	3.0	3.1	3.1	4.5	3.7	2.7
Fracture Toughness	1.6	0.9	0.8	0.7	0.6	0.6	0.85
COMPONENTS							
Resin Type A = Amorphous C=Crystalline	С	А	А	Α	А	А	А
Synthetic Collagen	Yes	No	No	No	No	No	No

DIAMONDCROWN™ FOTOKUR™ F/X™ CURE BOOTH

Recommended for DiamondCrown™
Chairside and DiamondCrown™
Laboratory Systems.
Digital Readout Display (seconds/minutes)
Cycle indicator, Automated turntable,
reflector / vented chamber, air cooled 300 mW Power,
500 mW/cm², 400-550 nm, < 60 C / 140 F degrees
internal chamber temperature throughout cure cycle.

\$1,195.00

ONLY



DIAMONDCROWN™ THERMOKUR™ F/X™

Recommended for DiamondCrown™ Laboratory Systems. Digital readout display (seconds, minutes).
Cycle / Phase select indicator, semi-automated microprocessor programmable, adjustable time / temperature settings.

ONLY \$1,795.00



DiamondCrownTM Lab Grand

Cr La Ss at talline System V Master Kit

Crown & Bridge, Inlay / Onlay, Laminate-Veneers & Implant Superstructure Dental. Restorative-Reconstructive PolyCrystalline NanoCeram Prosthodontic System Visible Light Cure.

The advantage of using DiamondCrown for indirect applications is multifold. They include:

- High fracture toughness, Ultimate wear resistance with unparalleled shock absorption.
- Breakthrough metal coupling the produces a stable bond to Nickel Chrome Gold Zirconium Titanium & non precious alloys.
- Easy intra oral augmentation with a high bond strength of 27MPa.
- Immediate loading of implant crowns, it's shape memory and anti-slumping properties make DiamondCrown easy to model, carve, shape and contour. It's high purity catalysis makes DiamondCrown shades highly accurate with superb colour stability.

CONTENTS:

- 67 5.0 grams ea. Syringe, total of 335.0 grams paste.Vita Equivalent Colors / Shades;
- 15 Core Opaque Dentins: A1,A2,A3,A3.5,A4,B1,B2,B3,B4,C1,C2,C3,C4,D2, D3.
- 16 Dentins: A1,A2,A3,A3.5,A4,B1,B2,B3,B4,C1,C2,C3,C4,D2,D3,D4
- 16 Enamels: A1,A2,A3,A3.5,A4,B1,B2,B3,B4,C1,C2,C3,C4,D2,D3,D4
- 6 Incisals: Clear, Transparent, L. Grey, L. Violet, L. Pink, White.
- 4 Dentin Chroma Modifiers: A, B, C, D.
- 10 Dentin Intensifiers: Ruby Red, Ultramarine-Blue, Canary-Yellow, Clay-Brown, Orange, Rust, Violet -Grey, Peach, Mustard, White.
- 17 7.5 g. ea. Metal Opaque Powders; OA1,OA2,OA3,OA3.5,OA4,OB1,OB2,OB3,OB4, OC1,OC2,OC3,OC4,OD2,OD3,OD4, O Neutral.

Allows Optimum Aesthetic Possibilities!

- 2 7 cc. Metal Opaque Liquid
- 2 3 cc. Metal Coupler
- 1 7 cc. Ceramo-Coupler
- 1 7.5 cc. Die Separator Release Agent (Jar)
- 1 7.5 cc. Rubber Separator (Jar)
- 2 3 cc Modeling Liquid
- 2 3 cc Stain Characterizing Agents; (1) Yellow, (1) Brown.
- 1 Glaze Dual Cure (Liquid-7cc. / Resin-3cc.)
- 8 Brush Holders
- 2 Disposable Brush Tips (50/pk.)
- 4 Disposable Wells (12 Cavities ea.)
- 2 Disposable Luer Lock Needles (10/pk.)
- 2 3cc. Conditioning / Compound Gel
- 2 DiamondLite Polishing Discs-Violet Felt -10/pk.
- 2 DiamondCrown Burnishing Discs-Grey Paper-(10/pk.)
- 1 7.5 cc. DiamondLite Polishing Paste
- 2 Stainless Steel Polishing Disc Mandrel
- 1 DRM Stainless Placement Instrument DC1; Carver / Packer (Sterilizable / Autoclavable).
- 1 DRM Stainless Steel Spatula CS # 324
- 1 DiamondCrown Fine Cut Carbide
- 1 DiamondCrown Ti-Nitrite Coated Carbide
- 2 Soft White Silicone knife edge wheel
- 1 Mandrel, 34 mm SHP.
- 1 Soft Pink Silicone mounted polishing wheel.
- 1 Nylon Bristle brush
- 2 Soft White Bristle brush # 11.
- 1 Cotton Buff 22 mm mandrel mounted.
- 1 3.0 g. DiamondFine polishing compound.

Kit ONLY \$6,995.00

Achieve Final Results Closer to Natural Tooth than Anything else....

