DIA-X BOND

Universal

X-traordinary Strength, Remarkably Simple.

INDICATIONS FOR USE:

- All indirect restorations: metal, zirconia, glass ceramics, alumina, etc.
- Desensitization/Sealing of Tooth
- ∏ Intraoral Repair
 (chipped porcelain, additions to direct restorations, etc.)









DIA-X BOND

Universal

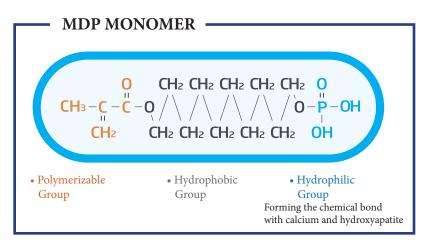
Advantages of Universal Bond vs 7th Generation Bond



Universal Bond	7th Generation Bond
Versatile: total-, self-, or selective-etching	Self-etching
Stable and hydrophilic	Needs to be thoroughly shaken before use
Self-etching without additional etching material has better adhesion than 5th generation bonding (2-step process)	Weak bond to enamel
Indirect restorations, direct restorations (zirconia/metals, 10-MDP as the primary adhesive functional monomer)	Direct restorations only (enamel/zirconia, ceramics, etc.)
Virtually no post-op sensitivity	Reduced chance of post-op sensitivity
Long shelf life (2 years)	Short shelf life

10-MDP Monomer Features

- The 10-MDP monomer component shows excellent bonding strength to metals such as zirconia and alumina
- Excellent overall bonding strength to teeth (dentin, enamel), indirect restorations (metal, zirconia, alumina), and direct restorations (composite resin)
- Excellent chemical bonding with tooth components due to the structure of the hydrophilic group of 10-MDP
- It has low solubility in water and forms excellent chemical bonding with the tooth surface
- 10-MDP monomer has excellent solubility stability compared to other monomers, as it is the most hydrophobic of the adhesive functional monomers



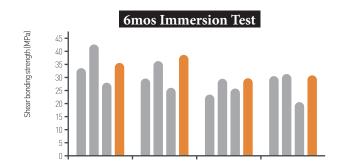
N Direct Restoration Immersion Tests



	T.E.	S.E.	T.D.	S.D.
Brand A	32.25	17.77	28.96	27.32
Brand B	29.25	17.72	19.59	27.29
Brand C	26.35	20.32	20.32	22.53
Dia-X Bond	30.81	20.83	27.64	26.43

Conditions: • Composite resin: DiaFil

- 37% Etching Gel: DiaEtch
- Light curing with D-Lux+ (high mode 10 secs)



	Initial T.E.	After S.E.	Initial T.D.	After S.D.
Brand A	33.64	29.75	23.24	30.33
Brand B	42.73	36.10	29.49	31.08
Brand C	28.07	26.02	25.80	20.37
Dia-X Bond	35.54	38.47	29.69	30.76

Conditions: • Number of specimens: 15 ea

- Light curing with D-Lux+ (high mode 10 secs)
- 6 months / 37°C / 1mm/min shear adhesion measurement





No phosphoric acid



Phosphoric acid on enamel



Phosphoric acid on enamel and dentin

■ Step-by-Step Instructions —

• Direct Restoration



Prepare & isolate tooth



Etch & wash off excess with water



Apply bond & rub for 20 seconds



Air dry for 5 seconds (do not dessicate)

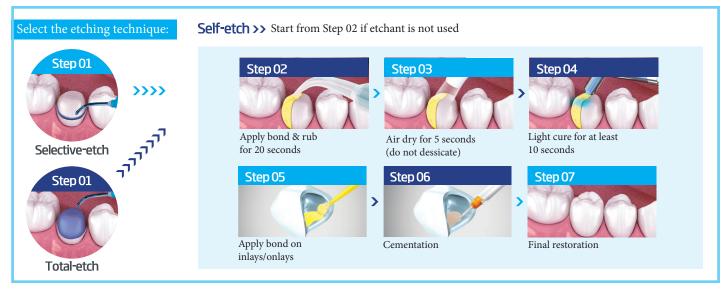


Light cure for at least 10 seconds



Final restoration

• Indirect Restoration



• Desensitization/Sealing of Tooth



Prepare & isolate tooth



Etch & wash off excess with water *omitted if using self-etching method



Apply bond & rub for 20 seconds



Air dry for 5 seconds (do not dessicate)



Light cure



Remove the oxygen-inhibited layer with a cotton pellet moistened with alcohol

• Intra-Oral Repair



Prepare surface

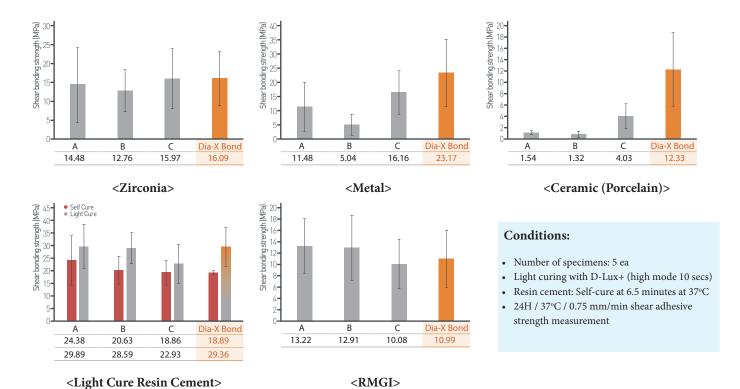
Apply bond

Air dry

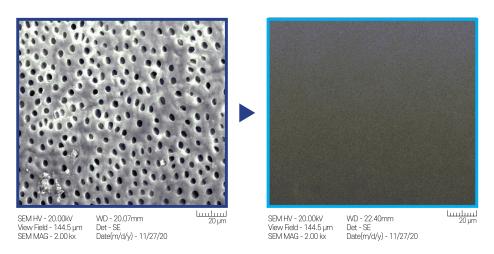
Restoration

Light cure

▼ Indirect Restoration Material Comparison Tests



N Desensitization / Dentin Tubules Occlusion



W Order Information

[A2001-2201] Dia-X Bond Universal 1 x 5ml bottle

SEM shows Dia-X Bond Universal's desensitization effectiveness by completely occluding the dentin tubules.



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