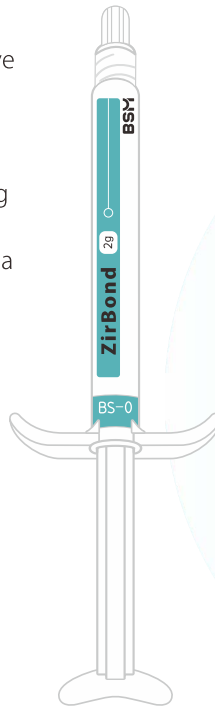


Aconia[®] ZirBond

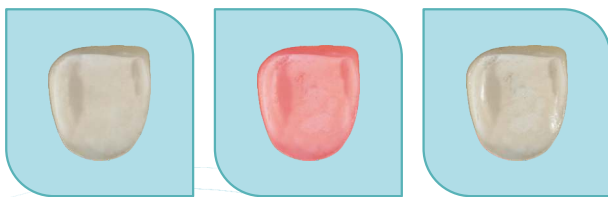
Aconia Zirconia Auxiliary Bonding Coating

- ZirBond is an innovative solution to solve the poor bonding problems of zirconia because of its material properties. This nano-sized lithium disilicate bonding coating will greatly improve the bonding strength of zirconia by applying a ultra thin layer of it onto the surface of zirconia restorations, therefore ensuring a stable and durable bonding effect of zirconia restorations (especially veneers, inlays, onlays etc.) to dentin.

- Applications: suitable for all zirconia restorations, especially ideal for zirconia inlays, onlays and veneers etc.



1. Strong adhesion, Stable effect



Zirconia Veneer

With Aconia
Adhesive Coating

After acid etching

- This nano-sized lithium disilicate adhesive coating, uniformly and firmly bonded to surface of zirconia after firing and prone to acid corrosion, greatly improve the bonding strength of zirconia by greatly increasing the zirconia specific surface area, enlarging the surface pores, and strengthening the surface roughening treatment effect to achieve a good acid etching effect, ensuring a stable and durable bonding effect of zirconia restorations to dentin.

2. Ultra thin, Super simple



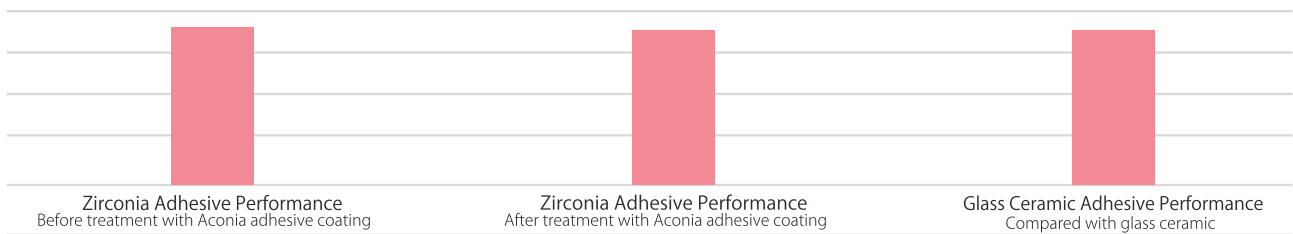
Before Brushing

While Brushing

Finished

- The nano-sized bonding coating could be applied ultra thin. This ultra thin layer ensures a precise fit when cementing zirconia restorations and a free creation of esthetically demanding restorations.
- Super simple brushing method with red bio-compatible indicator in the coating help the users adjust the coating thickness easily and efficiently based on the visualized color indication.
- Conventional glass ceramic bonding methods (acid corrosion, silane coupling, etc.) can be used clinically.

3. The Adhesive Performance Comparison



* After treatment with ZirBond, the zirconia bonding strength and durability are comparable to glass ceramic materials

Material Properties

Composition	Three-Point Flexural Strength (Mpa)	Chemical solubility ($\mu\text{g}/\text{cm}^2$)	CTE (25-500°C) (10^{-6}K^{-1})	Crystallization Temp. (°C)	Transition Temp. (°C)
SiO_2 , Al_2O_3 , Li_2O , K_2O , Na_2O , other oxides etc.	95	<100	10.3 ± 0.5	970	588

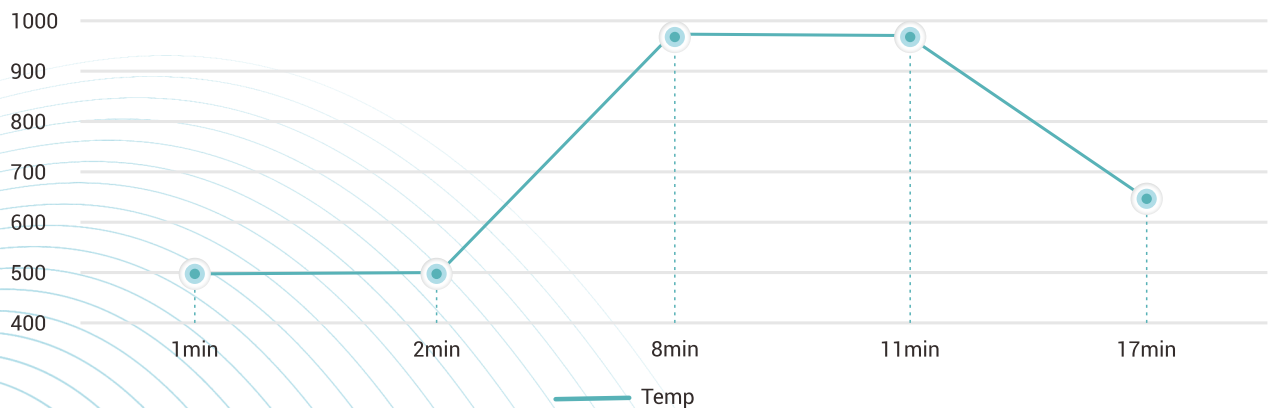
Specification

Specification	ZirBond Set
2g In Syringe	Blending Liquid, Bonding Tool, Brush

* Storage conditions: It is recommended to be stored indoors in a well ventilated, clean and dry environment without corrosive gases.

Firing Curve

Drying		Heating Up	Sintering		Cooling Down	Furnace Door Open
Temp (°C)	Time (min)	Heating Rate (°C/min)	Sintering Temp (°C)	Sintering Time (min)	Cooling Rate (°C/min)	Opening Temp (°C)
500	1	70	970	3	50	650



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