

# Aconia<sup>®</sup> ZirBond



## ■ Aconia Zirconia Auxiliary Bonding Coating



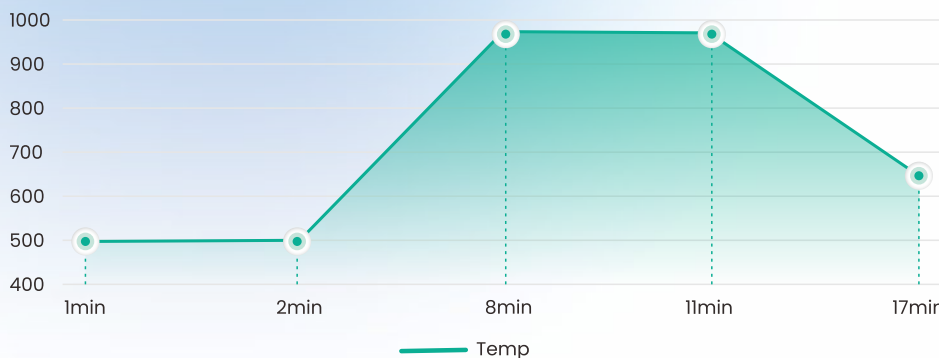
### BSM

**Product Description:** ZirBond Set

**Composition:**  $\text{SiO}_2$ ,  $\text{CaO}$ ,  $\text{Al}_2\text{O}_3$ ,  $\text{Na}_2\text{O}$ ,  $\text{K}_2\text{O}$ ,  $\text{Li}_2\text{O}$ ,  $\text{ZrO}_2$ ,  $\text{MgOMgO}$

### ■ Instructions

1. According to the sintering curve, the zirconia restoration is sintered at about **1530°C**, then trimmed to its final shape and placed on the model.
2. Squeeze out an appropriate amount of paste from the syringe in the set and place it on the mixing box.
3. Fix the restoration with adhesive rod;
4. Use a brushing stick to evenly apply the Zirbond paste on the tissue surface of the restoration, just apply a thin layer, not too thick, otherwise it will affect the restoration fitting;
5. After application, place the restoration on high-temperature cotton on the sintering tray for high-temperature firing (vacuum firing is recommended). The high-temperature firing curve is shown below:

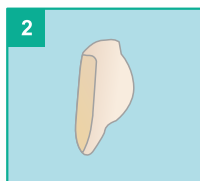


6. After firing and cooling, the restoration should be porcelain-glazed. For porcelain glazing, the glazing temperature should not exceed **970°C**. At this time, the use of sintering nails and sintering paste should be avoided to prevent surface contamination of the restoration tissue.
7. The finished restoration can be sent to the doctor after glazing.
8. When the doctor wears the teeth for the patient, they will perform acid etching treatment according to the method of glass ceramics, and then perform bonding after thorough cleaning.
9. **Acid etching is recommended at 3–5% for 15–20 seconds, with shorter times for higher concentrations. Always follow the instructions of the resin cement manufacturer.**

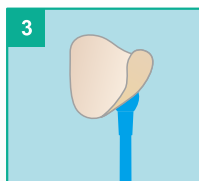
## ■ Operation flow



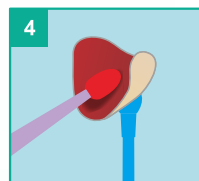
1. Clean the inner surface of the veneer with water



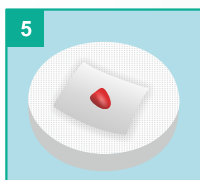
2. Wait for the restoration to dry completely



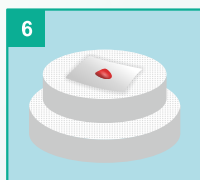
3. Adhesive rod fixation



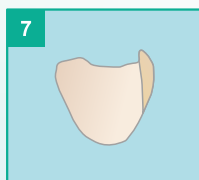
4. Apply ZirBond to the surface to be bonded



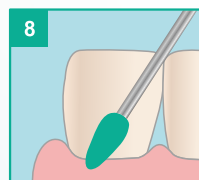
5. After applying Aconia ZirBond, place the restoration on high-temperature cotton and the sintering tray.



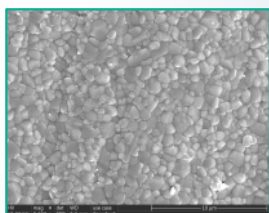
6. Sintering (the sintering tray is placed in a porcelain furnace)



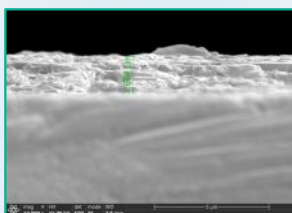
7. Result after sintering



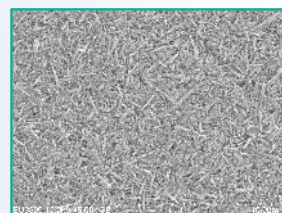
8. Shape trimming and glazing



SEM image of dense crystal structure of zirconia (5000X)



SEM image of coating thickness of ZirBond (2000X)



Electron micrograph of zirconia surface after acid etching with ZirBond (5000X)

## ■ Storage

### Manufacture Date

**Shelf life:** two years

**Storage conditions:** This product should be stored in a non-corrosive gas, well-ventilated, clean and dry room.  
Other relevant instructions: This product may appear segregated and stratified after long-term storage, it is recommended to mix thoroughly before using.

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