

**DANVILLE****SILICATING MEDIA****SilJet™**

### **DENTAL SURFACE SILICATING MEDIA FOR CEMENTATION AND REPAIR**

SilJet System can be used to prepare most dental surfaces for adhesion. It can be used for bonding or repair of porcelain, zirconia, alumina, lithium disilicate, composite, and metal surfaces. SilJet powder may be used intraorally.

#### **SilJet System consists of the following components:**

**SilJet Powder** – a 30-micron silicating media comprised of silica nano-coated alumina that applies a silica layer onto impacted inorganic surfaces.

**S-Bond™** – a prehydrolyzed silane that reacts with the silica layer to create a reactive organic surface suitable for polymerization with composites.

**Accolade™ OP Mask** – a light curable paintable resin-based composite having excellent hiding power and neutral tones.

**E-Bond™** – an unfilled light curable bonding resin.

#### **Precautions**

- **Never spray compressed air into the sulcus due to risk of creating an air emphysema.**
- Always place a rubber dam when using SilJet Powder intraorally. Contamination of the silicated layer, e.g., with saliva, causes the adhesive bond to deteriorate.
- The wearing of safety goggles is recommended for patient, dentist, and staff while using SilJet Powder. Danville MicroCab™ or MacroCab™ dust cabinets are a convenient method of controlling dust when SilJet is used extraorally. Danville Sand Trap™ provides intraoral dust confinement.
- Keep SilJet Powder free from moisture contamination by securely resealing its cap prior to storage.
- When using SilJet System components, please observe all warnings given on their respective Instructions for Use.

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**General Procedures****Siljet Powder:**

- Firmly affix Siljet Powder jar onto a MicroEtcher. A blasting pressure of 2 to 3 bar (30 to 45 psi) is recommended. Surfaces to be treated should be clean and dry.
- Direct Powder stream perpendicularly onto the target surface from a distance of 5 to 10 mm.
- Apply Siljet Powder to the bonding surface of the restoration evenly. Blasting time is approx. 15 seconds for a veneer facing and correspondingly longer or shorter times for larger or smaller areas.
- Apply a stream of dry, oil-free air for 5 seconds to remove residual powder.
- Optionally, use 3 minutes ultrasonic cleaning in dry alcohol or acetone followed by a stream of dry, oil-free air for 5 seconds.

**S-Bond:**

- Wet the impacted area with a thin layer of S-Bond. Dispense a drop of S-Bond into a dappen dish, apply lightly with a brush and allow to dwell 30 seconds (intraoral) or 3 minutes (extra-oral). Air dry.
- Use dispensed S-Bond within 3 minutes to avoid excessive solvent loss.

**For indirect restorations proceed directly to cementation.****Accolade OP Mask:**

- Accolade OP Mask is optionally applied to any surface that needs to be masked for esthetic reasons.
- Accolade OP Mask can be applied in a thin layer to the silanated area directly from the 25-gauge tip or with a disposable brush.
- Light cure for 30 seconds or more using a minimum of 600mW/cm<sup>2</sup> light power.

**E-Bond:**

- E-Bond is not for use under indirect restorations.
- Dispense E-Bond into a dappen dish and apply with a brush in a thin layer onto the silanated or optionally opaqued area.
- Light cure for at least 10 seconds. E-Bond is compatible with all commercial composite restoratives.

**Cementation of Restoration:**

- Complete the procedure with the composite of your choice.
- Siljet Powder by itself is compatible with conventional cements.

**Storage: Store all product components at or below 25°C/77°F**

Danville Materials  
a Zest Anchors, LLC company  
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**ZD ZEST DENTAL**  
SOLUTIONS

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Schiffgraben 41  
30175 Hannover  
Germany

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**E-Bond:**

- E-Bond is not for use under indirect restorations.
- Dispense E-Bond into a dappen dish and apply with a brush in a thin layer onto the silanated or optionally opaqued area.
- Light cure for at least 10 seconds. E-Bond is compatible with all commercial composite restoratives.

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