



Guidance for Hybrid Ceramic

This product should be handled by professional dental technician, tried-in, adjusted and seated by dental specialist.

Product Name: Hybrid Ceramic

Chemical compositions

Resin monomers (BIS-GMA, UDMA, TEGDMA): 13%-43%

Inorganic filler (glass powder, silicon dioxide): 55%-85%

Addition agent (BPO, BHT, DHET, CQ): <1%

Coloring (Iron oxide, Bismuth salt): <1%

Physical and chemical properties

Flexural strength: >100MPa

Chemical solubility: <100 $\mu\text{g}\cdot\text{cm}^{-2}$

Water sorption: $\leq 40\mu\text{g}/\text{mm}^3$

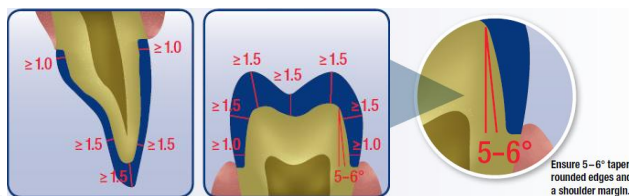
Solubility: $\leq 7.5\mu\text{g}/\text{mm}^3$

Intended use

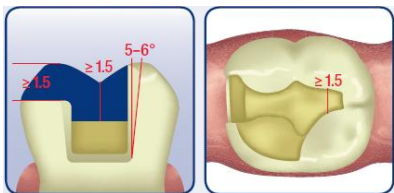
Hybrid Ceramic is indicated for permanent, adhesive single unit indications: Full Crowns, Onlays, Inlays, and Veneers.

1. Preparation

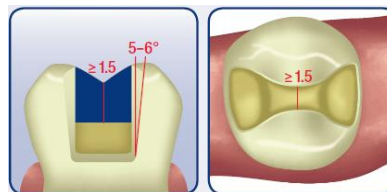
1) Full Crow



2) Onlay



3) Inlay



4) Veneer



Tooth Preparation

- For crowns, prep tooth with 5–6 °taper.
- All internal edges and line angles should be rounded.
- Non-beveled shoulder finish lines are recommended.
- Mechanically clean any contamination, (e.g. debris, powder, temp cement) from the tooth prep and rinse with a strong stream of water.
- Slightly air dry (surface should appear glossy).

Note:

- Do not use laser etching.
- Do not use any chemical agents after preparation.
- Do not use eugenol cement for cementation of temporary restoration.

2. Extraoral Polishing

- 1) Trial fit the final restoration.
- 2) Grind off sprue with coarse rubber wheel, and finish with medium rubber tool.
- 3) Pre-polish with fine rubber tool.
- 4) Fine-polish with a soft 15 mm bristle brush and polishing paste.
- 5) Buff with a muslin rag wheel.

3. Pit and Fissure Staining

- 1) Use a bur or sandblast to roughen the restoration surface.
- 2) Apply Scotchbond™ Universal Adhesive to the surface of the restoration and scrub it in for 20 seconds. Alternatively use a silane followed by a bonding agent.

- 3) Blow with oil-free, moisture-free air until the solvent is evaporated and the adhesive no longer moves over the surface, and then light cure the adhesive.
- 4) Apply and cure the stains.
- 5) Finish with rubber instruments and polish with a bristlebrush and polishing paste.

4. Bonding

Hybrid Ceramic must be bonded with adhesive resin cement. We recommend RelyX™ Ultimate Adhesive Resin Cement with Scotchbond™ Universal Adhesive, a primer and adhesive in one bottle. Alternatively, SE BOND agent with SE BOND adhesive also can be used.

Key Steps:

- Sandblast the restoration.
- Etch (selective or total etch) the tooth surface.
- Light cure the adhesive on the prep.
- Carefully remove excess cement while holding the restoration in place.
- Light cure restoration 20 seconds per surface for final curing.

5. Adjustment and Repolishing

- 1) Make any necessary adjustments with a diamond bur.
- 2) Finish with diamond impregnated points/cups.
- 3) Polish with intraoral polishing paste.

NOTE: The product shall be used only by trained personnel. The manufacturer is not liable for any erroneous results, since we have no control if this instruction is properly followed or if the product is appropriately used. Any claims for damages therefore shall be limited exclusively to the commercial value of our products.

Please make sure that the dentist has received all of the necessary information for the correct use of the product.

Caution: Federal Law restricts this device to sale by or on the order of a dentist.

Medical Device Adverse Event: So far, there is no medical device adverse event on this product.

Valid period: 5-year is an estimated replacement time. The product is not expected to degrade during this period.

Storage: Keep container dry and store at room temperature (1 – 30 °C / 34 – 86 °F), keep away from intense light or sunlight.

Safety instruction:

1. Avoid squeezing, shaking or colliding with hard material.
2. This product should only be handled by dental specialist.
3. Wear suitable face mask to avoid fine dust inhalation.
4. Using air blaster in short bursts to avoid fine dust air pollution.

Disposal: the material is not hazardous to the environment.

European representative: (please refer to labeling).

Distributor: (please refer to labeling).

Manufacturer: (please refer to labeling).