Clearfil® Photo Bond
Dual-Cure Total-Etch
Dental Adhesive

The world’s only bonding agent that can bond to Enamel, Dentin, Metal, Porcelain¹ and Cured Composite¹

...Simultaneously in a Single Application!

Features & Benefits
- High bond strength to enamel and dentin
- Dual-cure
- Bonds to multiple surfaces in a single application
- Simple and very easy to use

Multiple Applications!
- Porcelain, Cured Composite and PFM Repair High bond strength with no hydrofluoric acid and no separate silane step.
- Porcelain Veneer Bonding High enamel bond strength with dual-curing reassurance.
- Post & Core Bonding Use with dual or self-cure composite or core paste (Clearfil DC Core Automix).
- Amalgam Bonding
- Ortho Bonding brackets to porcelain crowns or cured composite restorations.

Optional Components
- K-Etchant Gel (KA-013) 40% phosphoric acid
- SA Primer (KA-063) Adhesion primer for dentin to fix exposed collagen fibers after total-etching.
- Porcelain Bond Activator (KA-061) Silane coupling agent to be mixed with Photo Bond.
- Alloy Primer (KA-064) Metal Primer for semi-precious and precious metals before bonding.
- DC Core (KA-362) White (KA-363) Dentin Dual-cure core material.

Popular Photo Bond Technique
Direct Shrinkage Technique for Posterior Composite Placement
by Raymond Bertolotti, DDS

During light curing of composites, it is well known that light initiated polymerization tends to pull composite toward the light and away from the composite-tooth interface (Figure 1). In the “Directed Shrinkage” technique for composite placement, the composite polymerization is initiated by the bonding agent (Clearfil Photo Bond) in the prepared cavity. The polymerization shrinkage is initiated directed toward the tooth-composite interface (figure 2). This initially polymerized layer resists the further tendency for the composite to pull away from the interface, influenced by light curing. Chemical cure is generally the preferred mode of cure for the initial stages of polymerization. A reduced rate of cure reduces stress in the composite and results in better margins. Dual cure is generally believed to result in better polymerization and enhanced properties.

3. Mix Clearfil Photo Bond (Catalyst & Universal). Apply mixture to restorative surface and leave for 5 seconds. Gently air thin for 2-3 seconds to evaporate the ethanol contained in the mixture. Light cure.
4. Apply the matrix.
5. Apply a self-cure or dual-cure flowable composite (Bisfil™ 2B or Starfill 2B™). Fill and let self-cure.

References and full technique article available upon request. Bisfil is a trademark of Bisco. Starfill 2B is a trademark of Danville Materials.

Note: Please read manufacturers instructions for use thoroughly before using referenced products.