Compomers were introduced as a material that combines the characteristics of both composite and glass ionomer in one type of restorative material. New proprietary resins in the recently introduced F2000 compomer restorative system optimize the exchange of fluoride, offering a material suitable for a wide variety of uses in many different types of patients. A unique primer application system as well as the availability in capsules and syringes make this restorative system appealing for the general practitioner.

Dr. Howard Stean
103 Mortlake Road
TW9 4AA - Kew
United Kingdom

Materials:
3M™ F2000 Compomer Restorative
3M™ Clicker™ Applicator
3M™ Sof-Lex™ Finishing and Polishing Discs

Class V defect in lower right central incisor. Incisal enamel abrasion points to abfraction as possible contributing cause. The F2000 compomer was chosen as restorative because the higher elasticity is expected to positively contribute to the longevity of the restoration.

1. After cleaning, shade taking and preparation the compomer primer is directly dispensed from the 3M Clicker system into the mixing well. (Note: The instructions state that the tips of the dispenser should contact the mixing well to ensure proper ratios).

2. After 30 seconds the primer is gently air dried for 5-10 seconds.

3. Then the primer is light cured for 10 seconds.

4. After light curing the primer, the compomer can be applied. In the practice of the author, capsules are preferred because the material can be applied directly into the cavity.

5. After shortly mixing the liquids in the well with a brush, the same brush is used to apply the primer to the entire cavity. For 30 second the surfaces should stay wet, if necessary more primer should be applied.

6. After cleaning, shade taking and preparation the compomer primer is directly dispensed from the 3M Clicker system into the mixing well. (Note: The instructions state that the tips of the dispenser should contact the mixing well to ensure proper ratios).

7. Then the primer is light cured for 10 seconds.

8. A preformed matrix is put on the restorative prior to a 40 seconds light cure to facilitate contouring and finishing of the restoration.

9. Then the primer is light cured for 10 seconds.

10. After the use of Sof-Lex finishing and polishing discs the end result shows a good color match and marginal adaptation.

Note: Although new technology has increased wear resistance, strength and fluoride release compared to other compomers, F2000 compomer is not recommended for use in stress bearing restorations in permanent posterior teeth. Indications for use are: Class V and cervical erosions, root caries lesions, class I and II cavities in primary teeth, class III cavities, class II laminate restorations (open sandwich), temporary repair of fractured teeth, core build-ups when half of the coronal tooth structure is remaining to support the crown.