Flowable composite preventive resin restorations

With pit and fissure decay increasing as the pre-eminent form of new decay in children and young adults, dentists need to widen their treatment capabilities to meet a broad continuum of clinical presentations. Flowable composite resins provide a valuable restorative option when ultraconservative preparations yield cavity dimensions which exceed the indications for conventional sealants.

1. A young female patient presented with occlusal 'catches' upon probing of the lower premolar fissures.

2. Upon rubber dam isolation, a laser fluorescent device reconfirmed that significant enamel demineralization had occurred.

3. Low pressure air abrasion (40 psi) removed demineralized enamel to the dentine-enamel junction. No local anaesthesia was required.

4. After acid etching, two successive coats of Single Bond adhesive were applied.

5. Incremental placement and light cure of Filtek Flow restorative (shade A2) was followed by application of glycerine to minimize oxygen inhibited resin at the cavo-surface margins.


Filtek Flow flowable restorative was recently introduced. The main indication areas for this product are base-liner applications and restorations of the minimal cavity design as described on this page. The flowability of the product is accomplished by using the same technology as in 3M™ RelyX™ ARC Adhesive Resin Cement. In a global field evaluation dentists indicated they preferred the handling characteristics of Filtek Flow restorative over the various flowable composites they had previously used.

Materials:
3M™ Single Bond Dental Adhesive
3M™ Filtek™ Flow Flowable Composite

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