NanoFil Light Curing Composite Resin

Introduction

Light curing composite resin is the most widely used dental filling material. It has excellent esthetics and physical properties, is easy to prepare, no risk of mercury poisoning etc. AT&M Biomaterials Co, Ltd invented a new low shrinkage NanoFil composite. This product has low degree of shrinkage after curing, high strength, good wear resistance, color stability, even color tone, able to attain a highly polished appearance and prevent X-Ray transmission (double the amount of X-Ray for the same thickness of Aluminum plate.

Product description

1. Product Composition: BIS-GMA, UDMA, TEDGMA, γ-MPS, mineral filler, photo-initiator, stabilizer etc.
2. Physical appearance and smell: Viscous and sticky state under normal conditions

Product Instructions for use

1. Isolation: Recommended to use a rubber dam to isolate the handling of materials.
2. Dental cavity preparation: After polishing the tooth, wash with water. The principle behind cavity preparation is to minimize the damage to teeth tissue. The optimal shape of the cavity should be 'U' shape to maximize the surface in contact with the composite resin to increase the adhesion
3. Dental pulp protection: Cover the bottom of the cavity with a layer of Calcium hydroxide paste as support.
4. Cavity etching: Etch the dentin. Use cotton balls or rubber dam to isolate the gum and etch the enamel outside the cavity. After 60 seconds, use water to rinse and then blow dry. The dentin should become white.
5. Filling the cavity: Apply the adhesive agent evenly on the etched cavity. Allow light curing by shinning 15-20 seconds of light, and then determine the color of teeth. Choose the pigment that is of the closest shade. Mix the light activated dental composite resin with the selected pigment. The whole process should not involve any metal apparatus. Semi-transparent mould strips can be used.
6. Curing time: Light colored composite resin should be cured for 20 seconds whereas darker composite resin should be cured for 40 seconds.
7. Mould polishing: Use carbon steel or diamond to polish, mould, use a thin grinding wheel slice and rubber cup to contain the alumina and carry out the polishing.

Notes

1. Maintain the cleanliness of the dentin after etching, if not the dentin will have to be etched again. During etching, care must be taken to prevent the etchant from coming into contact with the softer tissues and skin in the mouth. If there is any contact, rinse thoroughly with clean water.
2. Store the composite resin away from light, at temperature of 2 to 24^{o}C.
3. Keep the cover of the container tightly screwed at all times.

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