



Regular Package

- A set (A1, A2, A3, A3.5, B2)
- B set (A2, A3, A3.5, B2, B3)
- C set (A1, A2, A3, A3.5, C2)
- Each shade 1syringe × 4g
- Bonding agents
- Dia-Etch 1syringe × 3ml
- Accessories
brush tips, brush handle,
mixing well, mixing pad,
disposable needle tips

Refill Package

- Each shade 1syringe × 4g
(A1, A2, A3, A3.5, A4, B1, B2,
B3, C2, C3)
- Bonding agent
- Dia-Etch 1syringe × 3ml

Characteristics

1. Dia-Fil™ is a light-cured restorative hybrid composite resin for use in both Posterior and Anterior restorations.
2. Dia-Fil™ is designed to minimize polymerization shrinkage by loading high density inorganic fillers. This is why Dia-Fil™ has excellent marginal sealing abilities and surface results.
3. Dia-Fil™ has high strength and adequate abrasion resistance. This is achieved by adopting an optimal polymerization initiator system.
4. Dia-Fil™ contains radio-opaque material. It facilitates easy and reliable diagnosis using X-ray.
5. Dia-Fil™ has optimal viscosity for restoration, Dia-Fil™ shows excellent workability.

DiaDent Group International

P.O. Box 35 Chongju City 360-600
Choong Chong Buk Do, Korea
Tel : 82-43-266-2315
Fax : 82-43-262-8658
email : diadent@chollian.net

DiaDent Group International Inc.

11-3871 North Fraser Way, Burnaby,
British Columbia, Canada, V5J 5G6
Tel : 1-604-451-8851
Fax : 1-604-451-8865
email : diadent@diadent.com

Working Instructions



Clean teeth with pumice and water to remove surface stains. The use of rubber dam is highly recommended for isolation. After the cavity preparation, protect the pulp with a glass ionomer liner or base.



Dispense the necessary quantity of Etching solution and then apply it to both enamel and dentin. After 15 seconds rinse with water. Dry using gentle air.



Apply Dia-Fil™ Adhesive to enamel and dentin 3 times consecutively. Wait for 15 seconds. Dry Adhesive with a gentle air for 3 seconds. Light cure for 20 seconds with the light curing unit.



Dispense the necessary quantity of Dia-fil resin from the syringe. (If the shade is out of the standard range, use the mixing pad for the adequate combination) Place Dia-fil into the cavity.



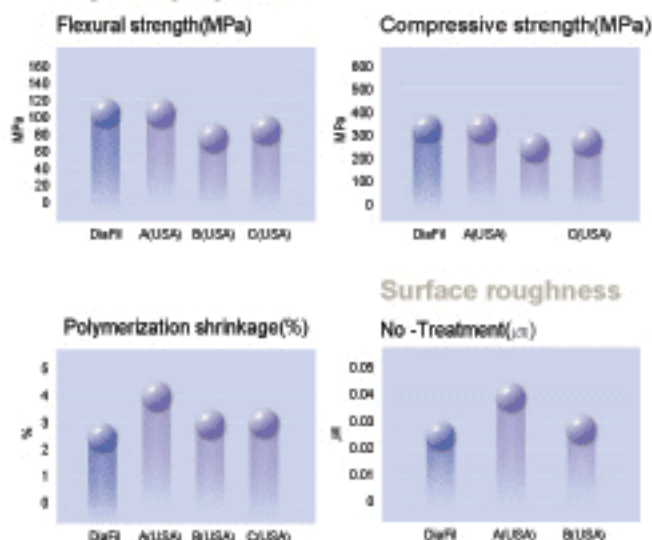
Cure Dia-fil into the restored cavity for 20 seconds for deep cavities (2mm or more) it is recommended to cure Dia-fil in smaller increments.



Contour the restoration to the desired shape. Polish and high shine the restoration with rubber points, soft brushes and buffs.

Properties of Composite Resin

Physical properties

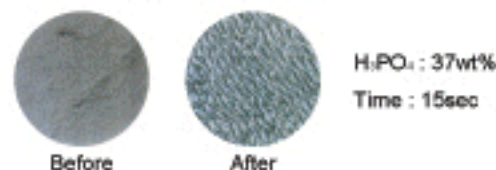


SEM Micrographs of Composite Fillers



Bonding system

Dia-Etch It shows the best etching effect on the enamel at 37% phosphoric acid.



Bonding agent

The highly active ethanol based bonding agent provides an ideal adhesive surface through hybrid layer formation. Great adhesive strength even when thin layer are applied.

