

7. Shaping and Polishing

Shape and polish using standard techniques.

SHADES

(7 shades)

A1, A2, A3, A3.5, AO3, CV (Cervical Color), BW (Bleaching White)

Note: All shades are based on Vita® shade.

* Vita® is a registered trademark of Vita Zahnfabrik, Bad Säckingen, Germany.

STORAGE

Store in a cool and dark place (4 – 25°C/ 39.2 – 77.0°F)
(Shelf life: 2 years from date of manufacture)

PACKAGES

1. Syringe packages : Syringe 1.3g (0.8 mL) x 2 (in one shade)
4 dispensing tips (needle type), 2 light protective covers
2. Dispensing tips package:
20 dispensing tips (needle type), 2 light protective covers
20 dispensing tips (plastic type), 2 light protective covers

CAUTION

1. In case of contact with oral tissue or skin, remove immediately with cotton or a sponge soaked in alcohol. Flush with water.
2. In case of contact with eyes, flush immediately with water and seek medical attention.
3. Take care to avoid ingestion of the material.
4. Do not mix with other similar products.
5. The dispensing tip cannot be sterilized in an autoclave or chemiclave.

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GRADIA® DIRECT LoFlo

LIGHT-CURED FLOWABLE COMPOSITE

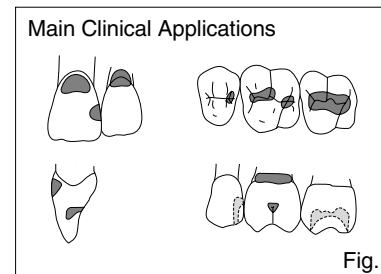
Prior to use, carefully read
the instructions for use.

GRADIA® DIRECT LoFlo is a multi-purpose light-cured, radiopaque, fluoride releasing, micro-filled hybrid type composite resin. Thanks to GC's new HDR (High Density Radiopaque Pre-polymerized Filler) technology, it contributes to achieve excellent abrasion resistance. Also the thicker consistency (lower flow-ability) is excellent for cavities of class III, V and root surface caries.

For use only by a dental professional in the recommended indications.

RECOMMENDED INDICATIONS

1. Restoration of Class I, II, III, IV, V cavities (particularly for small Class I cavities / shallow Class V cavities / other small cavities).
2. Restoration of root surface caries.
3. Restorations in deciduous teeth.
4. Filling tunnel shaped cavities.
5. Sealing hypersensitive areas.
6. Liner/base/filling in cavity undercuts.
7. Sealant.
8. Fixation of mobile teeth.
9. Additions to composite restorations.



CONTRAINDICATIONS

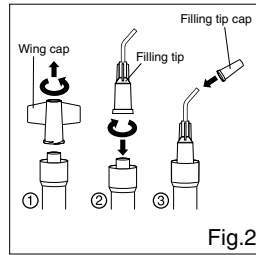
1. Pulp capping.
2. In rare cases the product may cause sensitivity in some people. If any such reactions are experienced, discontinue the use of the product and refer to a physician.

GC

DIRECTIONS FOR USE

1. Preparations

- 1) Hold the syringe upright and remove the wing cap by turning counterclockwise. Take care not to expose material to direct light from the dental lamp or natural light (Fig.2).
- 2) Promptly and securely attach the dispensing tip to the syringe by turning clockwise (Fig.2).
- 3) After attaching the dispensing tip, protect it with the cover until ready for use in order to avoid exposure to light (Fig.2).



2. Cavity Preparation

Prepare cavity using standard techniques.

Note:

For pulp capping, use calcium hydroxide.

3. Shade Selection

Select shade from the following 7 shades.

4. Use of Light-cured Bonding System

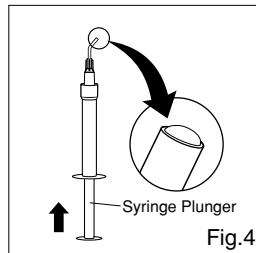
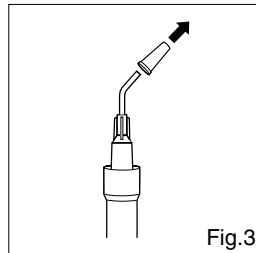
For bonding GRADIA® DIRECT LoFlo to tooth structure, use a light-cured bonding system such as GC UniFil® Bond or G-BOND.

Note:

When using light-cured bonding system, follow manufacturer's instructions for use.

5. Placement of GRADIA® DIRECT LoFlo

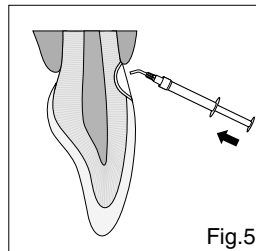
- 1) Remove cover from the dispensing tip on the syringe (Fig. 3).
- 2) To remove any air from the dispensing tip, with the tip pointing upwards gently push forward the syringe plunger until material reaches the mouth of the tip (Fig. 4).



Note:

If there is air inside the dispensing tip, air bubbles may be formed at the time of injection.

- 3) Place the dispensing tip as close as possible to the cavity, and slowly push the plunger to inject material into it (Fig. 5). Alternatively, dispense material onto a mixing pad and transfer to the cavity using a suitable instrument.



Note:

- a. When attaching the dispensing tip, make sure that no material is sticking to the joint between the tip and the syringe in order to ensure a tight connection.
- b. If the syringe does not extrude smoothly, remove the dispensing tip and extrude material directly from the syringe to make sure that material is coming out.
- c. The material will start to harden if exposed to the dental light or ambient light. Be sure to protect it from light when working from a mixing pad.
- d. After use, immediately remove the dispensing tip and tightly close the syringe with the wing cap.

Clinical Hint 1

In order to inject effectively, use the surface tension of the material to ensure uniformity across the entire surface of the restoration during build up. Once the required amount has been injected, release the pressure on the plunger and withdraw the syringe in a direction perpendicular to the surface. This will allow the material to separate from the dispensing tip and provides a smooth surface over the restoration.

Clinical Hint 2

Where higher abrasion resistance and thicker consistency are required, it is recommended to place GRADIA® DIRECT LoFlo instead of GRADIA® DIRECT Flo or low viscosity flowable composites.

Clinical Hint 3

When filling a large cavity, it is recommended to place material incrementally into the cavity. Another effective method is to use GRADIA® DIRECT LoFlo for filling in undercuts or as a liner/base, and then to place composite resin (GRADIA® DIRECT) on top.

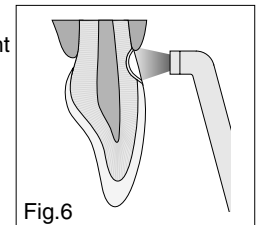
6. Light Curing

Light cure the GRADIA® DIRECT LoFlo using a light curing unit (Fig. 6).

Refer to the following chart for Irradiation Time and Effective Depth of Cure.

Note:

When light curing material, wear protective glasses.



Irradiation Time and Effective Depth of Cure

| Shade | Irradiation time | |
|------------|---|---|
| | 5 sec. (Plasma arc) (2000mW/cm ²) 10 sec. (GC G-Light) (1200mW/cm ²) 20 sec. (Halogen/LED) (700mW/cm ²) | 8 sec. (Plasma arc) (2000mW/cm ²) 20 sec. (GC G-Light) (1200mW/cm ²) 40 sec. (Halogen/LED) (700mW/cm ²) |
| A1, A2, A3 | 2.0 mm | 3.0 mm |
| A3.5, BW | 1.5 mm | 2.5 mm |
| AO3, CV | 1.5 mm | 2.0 mm |