

G-ænial® A'CHORD

LIGHT-CURED RADIOOPAC COMPOSITE RESTORATIVE

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

RECOMMENDED IDENTIFIERS

- Direct Restorative for Class I, III, IV and V cavities.
- Direct restorative for wedge-shaped defects and root restorations.
- Direct restorative for veneers and diastema closure.

CONTRAINDICATIONS

- Pulp capping.
- Acrylic resin luting product in patients with known allergies to methacrylate monomer or methacrylate polymer.

DIRECTIONS FOR USE

1. Shade selection. Clean the tooth with pumice and water. Shade selection should be made prior to isolation. Select the appropriate G-ænial A'CHORD shades by referring to the G-ænial A'CHORD shade guide that is obfuscated in each shade's tab. G-ænial A'CHORD Core shades were developed to match several Vita shades as described in the below table. Stratification and light curing are as well. Please refer to the section "CLINICAL TIPS" on stratification advice.

Shade correspondence between Vita® Classic Shade and G-ænial A'CHORD Core shade

VITA® Classic Shade	G-ænial A'CHORD Core shade	G-ænial A'CHORD Core shade	VITA® Classic Shade
A1	A1	A1	B1
A2	A2	A2	B2
A3	A3	A3	D2
A3.5	A3.5	A3.5	D2
A4	A4	A4	B2
A4.5	A4.5	A4.5	B2
B1	A1	A1	C1
B2	A2	A2	C1
B3	A3	A3	C2
B3.5	A3.5	A3.5	C2
B4	A4	A4	C3
B4.5	A4.5	A4.5	C3
C1	A1	A1	D1
C2	A2	A2	D1
C3	A3	A3	D3
C3.5	A3.5	A3.5	D3
C4	A4	A4	D4
D2	A3	A3	D4
D3	A3.5	A3.5	D4
D4	A4	A4	D4

2. Apply Preparation

Carefully prepare using standard techniques. Dry by gently blowing with free air.

3. Bonding Treatment

For pulp capping, use calcium hydroxide liner. For bonding G-ænial A'CHORD to enamel and/or dentin, use a light-cured bonding system such as G-Primo BOND (G-ænial BOND, G-Primo BOND (Fig. 1), flow manufacturer's instructions.

4. Placement of G-ænial A'CHORD

1) Dispensing from a syringe. Remove syringe cap and dispense material onto a mixing pad.

Note:

- After dispensing, screw syringe plunger counterclockwise by a half to full turn to remove residual material from the syringe. Replace cap immediately after use.
- The material may be difficult to extrude immediately after removing from cold storage. If this occurs, allow the material a few minutes at normal room temperature.
- After dispensing, avoid extended exposure to ambient light. Ambient light can shorten the manipulation time.

2) Dispensing from a Unipit.

Insert the Unipit into the Unit APPLIER or equivalent. Remove the cap and extrude material directly into the prepared cavity. Use steady pressure. Maintain pressure on the applicator handle while removing the Unipit APPLIER and Unipit from the mouth. This prevents the Unipit from coming loose from the applicator.

2) Placement of the cavity using a suitable placement instrument.

Note: Using Standard (Core) shades, only one shade is needed to achieve aesthetic restorations.

3) Contouring and Light Curing

Use standard techniques. Light cure G-ænial A'CHORD using a light curing unit (Fig. 2).

2. Keep light guide as close as possible to the surface. Refer to the following chart for Irradiation Time and Effective Depth of Cure.

Irradiation Time and Effective Depth of Cure (ISO 4049)

10-wk, High-power LED (1-200 mW/cm ²)	20-wk, High-power LED (1-200 mW/cm ²)	20-wk, Halogen LED (1-700 mW/cm ²)
A1, A2, A3, A3.5, A4, B1, B2	2.5mm	
A4.5, A6, A6.5, A6.5, B7	2.0mm	

Note:

- Material should be placed and light cured in layers. For maximum layer thickness, please consult the tables.
- Lower light intensity may cause insufficient curing or discoloration of the material.
- Finishing and polishing. Finish and polish using diamond burs, polishing pastes and a high gloss, polishing pastes can be used.

Clinical Tips

Single shade layering technique

In most cases a multi shade layering technique will give the best aesthetic results. However, a single shade alone will be sufficient. In cases where a higher degree of translucency or opacity is needed, one of the Special shades can be used.

Multi shade layering technique

1. In the case of large cavities. In most cases a multi shade layering technique will give the best aesthetic results. However, a single shade alone will be sufficient. In cases where a higher degree of translucency or opacity is needed, one of the Special shades can be used.

Shade combination chart for multiple layers in large cavities of anterior teeth

VITA	A1	A2	A3	A3.5	A4	B1	B2	B3	B3.5	B4	B4.5	C1	C2	C3	C3.5	C4	D2	D3	D4	Black
Standard	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE

Shade combination chart for multiple layers in large cavities of posterior teeth

VITA	A1	A2	A3	A3.5	A4	B1	B2	B3	B3.5	B4	B4.5	C1	C2	C3	C3.5	C4	D2	D3	D4	Black
Standard	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE

SHADES

Standard Shades: Core (A1, A2, A3, A3.5, A4), A5, A6, B (Beaching White). Enamel Shades: JE (Junior Enamel), AE (Adult Enamel) (Beaching White), A02, A03, B0W (Beaching Opaque White).

Shades are based on Vita® "Shade

"*A1-A6, A02, A03, A04, B0W (Beaching Opaque White)."

PACKAGES

- Syringes (2.1ml per syringe)
- REFILLS (Weight per syringe: 4.0g)

UNITS

- REFILLS (Pack of 15 (each in 14 shades) 0.10ml, 0.10ml)

STORAGE

It is recommended for optimal performance, store at temperatures 4-25°C / 39-77°F away from high temperatures and direct sunlight.

CAUTION

- In case of contact with oral tissue or skin, remove immediately and wash thoroughly with water in alcohol. Flush with water. To avoid contact, a rubber dam and/or cocoa butter can be used to separate the operation field from the skin or oral cavity.
- In case of contact with eyes, flush immediately with water and seek medical attention.
- Take care to avoid ingestion of the material.
- Prior to starting the filling process, partially extrude paste outside of the patient's mouth and away from the patient to ensure paste is flowing properly.
- Wear plastic or rubber gloves during operation to avoid direct contact with any irritant resin layers, in order to prevent possible sensitivity.
- Wear protective eye glasses during light curing.
- When polishing the material, use a vacuum, a dust collector and wear a dust mask to avoid inhalation of cutting dust.
- Do not mix with other dental products.
- Avoid getting material on clothing.
- In case of contact with unintended areas of tooth or prosthetic appliances, remove with instrument, scrub with toothpaste and clean with toothbrush.
- Do not use G-ænial A'CHORD in combination with eugenol containing materials as eugenol may hinder G-ænial A'CHORD from curing properly.
- 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.

CLEANING AND DISINFECTING

Wipe, clean and disinfect all surfaces to avoid cross-contamination between patients; this device requires mid-level disinfection. Immediately after use inspect device and label for deterioration. Discard device if damaged.

DO NOT IMMERSE

Thoroughly clean device to prevent drying and accumulation of contaminants. Do not immerse in water. Do not use in autoclave. Do not use in dishwasher. Do not use in ultrasonic cleaner. Do not use in steam sterilization. Do not use in ethylene oxide sterilization. Do not use in gamma radiation sterilization. Do not use in microwave oven.

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A4	A4	A4	B2
A4.5	A4.5	A4.5	B2
B1	A1	A1	C1
B2	A2	A2	C1
B3	A3	A3	C2
B3.5	A3.5	A3.5	C2
B4	A4	A4	C3
B4.5	A4.5	A4.5	C3
C1	A1	A1	D1
C2	A2	A2	D1
C3	A3	A3	D3
C3.5	A3.5	A3.5	D3
C4	A4	A4	D4
D2	A3	A3	D4
D3	A3.5	A3.5	D4
D4	A4	A4	D4

2. Apply Preparation

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3. Bonding Treatment

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Standard	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE

Shade combination chart for multiple layers in large cavities of posterior teeth

VITA	A1	A2	A3	A3.5	A4	B1	B2	B3	B3.5	B4	B4.5	C1	C2	C3	C3.5	C4	D2	D3	D4	Black
Standard	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE

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B2	A2	A2	C1
B3	A3	A3	C2
B3.5	A3.5	A3.5	C2
B4	A4	A4	C3
B4.5	A4.5	A4.5	C3
C1	A1	A1	D1
C2	A2	A2	D1
C3	A3	A3	D3
C3.5	A3.5	A3.5	D3
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