

### Introduction

FormCore DC is a dual cure radiopaque flowable hybrid composite-based material for core build-up. FormCore DC is delivered in an auto-mixing 1:1 mini syringe and it can be easily dispensed and applied directly. FormCore DC exhibits a short setting time without high heat generation. The dual cure properties enable the dentist to carry out core build ups in cases where sufficient light curing cannot be guaranteed.

### Kit contents

FormCore DC Auto-mix mini syringe (5ml) x 1  
Mixing tip x 10  
Intra-oral tip x 10

### Preparing Auto-mix Syringe

Place the plunger on back of the auto-mix mini syringe. Remove the protective cap from the syringe channel openings. Test the flow of material from both syringe channels by compressing the plunger. When material flows evenly from both channels, wipe excess material from the syringe opening with a paper towel or tissue. Match the notch on the mixing tip to the groove on the syringe. Push and rotate the tip clockwise 90 degrees until it is locked into position.



### WARNINGS:

Do not re-use the cap. Cross contamination may occur resulting in non performance of the material. The working time 23°C (73°F) of FormCore DC is 1:30 minutes from start of mixing.

### Instructions for use

#### 1. Core Build-up of a Vital Tooth

##### 1.1. Isolation

Use of a rubber dam to isolate the tooth is strongly recommended.

##### 1.2. Cavity Preparation

Remove all existing old restorations and decay from the tooth. If necessary place any pins or posts. Refer to directions of the selected post manufacturer. Place bevels on any existing enamel.

##### 1.3. Pulp Protection

The pulpal floor of any deep excavations should be covered with a thin layer of hard setting calcium-hydroxide material.

##### 1.4. Etching (Total etch technique)

Apply an etching gel onto the enamel and dentinal surfaces beginning with the enamel bevels. Leave the etching gel in place for 20 seconds. Rinse for 20 seconds with water. Dry it with a water and oil-free airstream, but do not desiccate. A slightly wet dentinal surface is important for the proper function of the bonding agent. The etched enamel bevel should have a chalky white appearance.

**Etching Precaution:**

It is essential that etched areas are not contaminated. If contamination occurs, re-etch, rinse with water and dry as instructed above. Avoid etching gel contact with oral soft tissues, eyes and skin. If accidental contact occurs, flush immediately with copious amounts of water.

**1.5. Application of Bonding Agent**

Apply Bonding Agent per manufacturer's instructions.

**1.6. Application of FormCore DC**

FormCore DC is automatically mixed when dispensed with slight and even pressure. Filling should occur from pulpal floor to occlusal surface to prevent voids. To facilitate placement of FormCore DC place a matrix band around the prepared tooth. FormCore DC may be contoured by using a composite instrument. A flat ended interproximal carver is recommended. Place FormCore DC directly into the preparation and light cure for 40 seconds. FormCore DC also self cures in 3 minutes. For optimal physical property light curing is strongly recommended. An explorer can be used to test that the FormCore DC is completely set. Do not remove the matrix band before the material has set.

**1.7. Final preparation of the Core**

Final preparation of the core can be done with typical crown preparation burs.

**2. Core Build-up of a Non-Vital Tooth****2.1. Isolation**

Use of a rubber dam to isolate the tooth is strongly recommended.

**2.2. Root Canal Preparation**

Refer to directions of the selected post manufacturer. Remove all existing old restorations and decay from the tooth. Prepare and clean the root canal with hydrogen peroxide (3%) or sodium hypochlorite solution and remove excess solution from the canal with a soft paper tip. Etch the root canal with an etching gel for 15 seconds and rinse with water using an endodontic irrigation syringe. Blot the canal dry with soft paper tips, leaving the dentin visibly moist.

**2.3. Post Cementation**

Apply dental adhesive cement to cement the post per manufacturer's instructions

**2.4. Application of FormCore DC**

Place FormCore DC directly into the preparation and light cure for 40 seconds. FormCore DC also self-cures in 3 minutes. For optimal physical property light curing is strongly recommended. An explorer can be used to test that the FormCore DC is completely set. Do not remove the matrix band before the material has set.

**2.5. Final preparation of the Core**

Final preparation of the core can be done with typical crown preparation burs.

**Additional Notes**

- Do not use FormCore DC in combination with substances containing eugenol because this can impair the hardening of the composite and also causes discoloration. Do not store the composite material in proximity of eugenol containing products, or allow the composite to come into contact with materials containing eugenol.
- Contact of resin pastes with skin and gingival tissue should be avoided, especially by anyone having known resin allergies.

**Storage**

Do not store above 23°C (73°F). Do not use after expiration date.

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