



Resin restorative material.

Features

- Reinforced microfill resin material
- Heat and pressure cured
- Indicated for esthetic inlays and onlays
- Low wear
- Easy repairability
- Superior polishability
- High strength and durability
- Exceptional marginal integrity
- Simplified shade selection
- Easy clean-up

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Indirect restorations

Using Concept HP resin restorative material

By Dr. Ed Lowe. Information provided by Ivoclar Vivadent, Inc.

Following are step-by-step procedures for indirect restorations using Concept HP restorative material to achieve a strong, esthetic result with simplified shade selection and easy clean up.

A 24-year-old female presents with three deteriorating posterior amalgam restorations (Fig. 1). Concept HP inlays are selected.

Preparation, temporization appointment

1. Isolate the teeth using rubber dam.
2. Remove the amalgam restorations, including the bases, and use a caries detector to check for recurrent decay.
3. Clean the preparations using a hydrogen peroxide or chlorhexidine solution and dry with a steady stream of air.
4. Agitate a generous amount of AdheSE primer, (Ivoclar Vivadent) into the preparation for 30 seconds.

5. Apply AdheSE bonding agent and disperse using a weak stream of air. Light cure for 10 seconds (Astralis 10, Ivoclar Vivadent) (Fig. 2).
6. Apply Tetric Flow A3 composite, (Ivoclar Vivadent), to the floor of the preparations to block out undercuts and to demonstrate a clear separation between the restoration and tooth structure on radiographs (Fig. 3). Light cure for 30 seconds.
7. Take an impression using Virtual light-body and heavy-body impression material (Ivoclar Vivadent) (Fig. 4). Note: Using self-retracting lip retractors simplifies the impression taking process.
7. Apply a small amount of Liquid Strip glycerin gel (Ivoclar Vivadent) to the preparations to facilitate removal of the temporary restorations.
8. Insert Systemp temporary inlay/onlay material (Ivoclar Vivadent) into the preparation, stopping 1 mm from the cavo-surface margin. Light cure according to manufacturer's recommendations.
9. Apply temporary crown and bridge material (Systemp.c&b, Ivoclar Vivadent or LuxaTemp, Zenith) over the temporary inlay material (Fig. 5). Note: An initial impression can be taken and used as a splint to apply the crown and bridge material.
10. Clean off the excess temporary material, adjust occlusion, and polish the temporaries.



Fig. 1 Pre-operative view.



Fig. 2 Apply AdheSE primer and bonding agents.



Fig. 3 Tetric Flow composite is added to the floor of the preparation.



Fig. 4 Syringe Virtual light body impression material into the preparations.



Fig. 5 Apply temporary crown and bridge material over the temporary inlay material.



Fig. 6 Apply Excite adhesive.

Seating appointment

1. Remove the temporaries; Create an access hole through the temporary crown and bridge material, insert a spoon excavator and, with a twist and pull motion, pull out the temporary restoration.
2. Isolate the teeth using rubber dam and try in the restorations dry to ensure proper fit.
3. Prepare the restorations by re-etching the seating surfaces with 37% phosphoric acid for 15-20 seconds, rinsing, and then drying.
4. Apply Monobond S silane (Ivoclar Vivadent) for up to 1 minute and dry the restorations.
5. Apply apply Excite bonding agent (Ivoclar Vivadent) and evaporate the solvent using a steady stream of air. Place the restorations in a Viva Pad light-protected mixing pad (Ivoclar Vivadent) to protect them from ambient light.
6. Clean the preparations using a chlorhexidine solution. Acid etch the enamel surfaces with a 37% phosphoric acid for 15 seconds and the dentin surfaces for 10 seconds.
7. Rinse and remove the excess water using high-speed suction. *Note:* Do not to dessicate the tooth surfaces.
8. Place desensitizer (Systemp desensitizer, Ivoclar Vivadent or Gluma, Heraeus Kulzer)



Fig. 7 Spot tack the restorations.



Fig. 8 Remove the excess cement.



Fig. 9 Final post-operative view of the restorations.

20. Polish the final restorations using Soft Flex XP medium, fine and super fine discs (3M ESPE) and Astropol polishing points (Ivoclar Vivadent).

Fig. 9 shows the postoperative view of the restorations. **DPR**

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- into the preparations using a microapplicator, scrubbing it into the tooth surfaces for 10 seconds.
9. Remove excess moisture by blotting the applicator on the patient bib.
 10. Place a layer of Excite bonding agent (Ivoclar Vivadent) and then agitate or scrub it into the tooth surfaces for 10 to 15 seconds (Fig. 6).
 11. Evaporate the solvent using a warm air dryer (A-dec) for 5 seconds.
 12. Light cure the adhesive layer for 10 seconds per tooth and check for a uniform glossy layer on the tooth surface.
 13. Select the shade of Appeal cement (Ivoclar Vivadent) by determining if the value of the restoration needs to increase in value, decrease in value or needs no value change. *Note:* Value - 1 was selected in this case to demonstrate a “warmer” appearance.
 14. Apply the cement a.) onto the prepared restoration and b.) with a small brush, into the preparation.
 15. Carry the restorations to the mouth using a Vivastick (Ivoclar Vivadent).
 16. Hold down the restoration using a ball burnisher and spot tack in place for 2 seconds (Fig. 7). *Note:* The restoration for tooth 15 is seated and tacked first and then teeth 14 and 13 are placed simultaneously.
 17. Remove the excess cement using a rubber tip and floss (Fig. 8).
 18. Place Liquid Strip glycerin gel (Ivoclar Vivadent) on the margins and light cure for 40 seconds from each aspect.
 19. Check the occlusion.

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