



PROBLEM:

Staining under provisional crowns.

SOLUTION:

After proper selection of hemostatic agents, clean tooth well prior to cementing provisionals and use quality sealing provisional hydrophilic cements (e.g., UltraTemp™ temporary luting material)

CHEMISTRIES (THE “WHYS”):

1. Hemostatic agents as well as the blood from cut tissues are both sources of iron, which reacts with the hydrogen sulfide gas (rotten egg gas, H₂S) produced by anaerobic bacteria in this septic environment. The reaction yields ferric sulfide, the harmless yet annoying dark surface stain that is seen below. This stain can occur to a lesser degree solely from the natural iron in blood.

2. Non-sealing cements allow saliva and bacteria to move between the temporary and preparation. Additionally, non-sealing provisionals are problematic as saliva and/or bacteria removes the smear layer, opening tubules to bacteria.

HOW TO PREVENT/TREAT:

1. If there is no bleeding you can use a hemostatic agent that is not ferric sulfate-based (e.g., ViscoStat™ Clear hemostatic). If a ferric sulfate-based agent is required, be sure to clean the preparation well as instructed below.
2. Clean the preparation well. This can be done with Consepsis Scrub slurry and a STARbrush coronal brush or by etching with Ultra-Etch etchant for a couple of seconds and rinsing well.
3. Use a quality hydrophilic provisional cement like Ultradent's non-eugenol, polycarboxylate, paste-to-paste UltraTemp temporary luting material.

Note: Similar staining can occur even under definitive direct and indirect restorations if contamination is on the preparation prior to bonding. It is recommended to etch with Ultra-Etch etchant prior to application of the dentin bonding agent.

CASE 1



CASE 2



STARbrush™

CORONAL BRUSH



- Effectively cleans in hard-to-reach areas
- Tight fibers help to prevent messes and apply appropriate pressure
- Great for cleaning pits and fissures with Consepsis™ Scrub antibacterial slurry prior to sealants



Actual size

	50pk	
STARbrush	1092	

1. realityesthetics.com.

Ultradent blog

Visit the Ultradent Blog for technical articles, clinical cases, announcements and more, and subscribe to receive exclusive promotions, new product information and continuing education opportunities.

