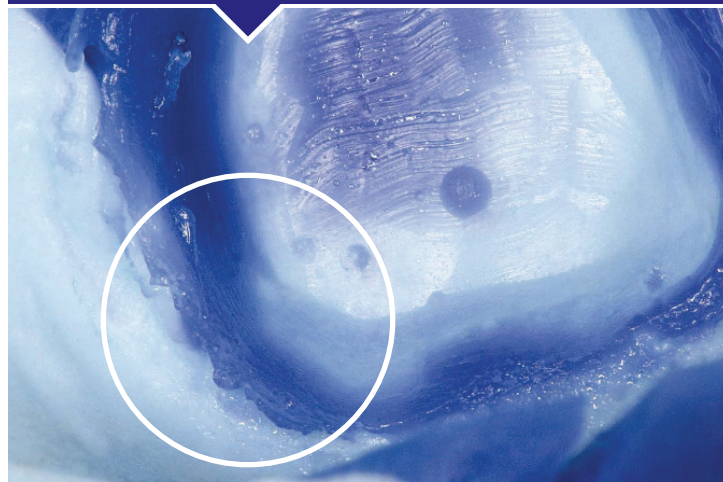


# Impression Troubleshooting Tips



## Incomplete Reproduction at Preparation Margin

CAUSES	SOLUTIONS
Insufficient retraction	Retract gingival tissue to entirely capture the prepared area. Retraction cords as well as retraction pastes are suitable.
Blood and saliva contamination around preparation	Rinse and dry the prepared area and stop any bleeding by using appropriate retraction technique and a hemostatic agent. Liquids or pastes based on aluminum chloride, aluminum sulfate, or iron sulfate are suitable hemostatic agents.
Working time exceeded, flowability already impaired	<p>Select material with sufficient working time (i.e. regular set instead of fast set). Make a choice depending on the individual situation and preference of material. Do not exceed working times given in the instructions for use. In case of 3M Dental materials follow given intra-oral syringing times for wash materials.</p> <p>Pay attention to storage temperature. Working times are reduced due to higher temperatures of the product, while intra-oral setting times might be longer if the temperature of the product is lower.</p>
<p>Inadequate coverage of marginal area with light body impression material:</p> <ul style="list-style-type: none"> <li>• Wash material displaced/washed away from preparation margins when applying 1-step technique</li> <li>• Initial impression not sufficiently carved when applying 2-step technique</li> </ul>	<p>Use wash material liberally on preparation and abutments.</p> <ul style="list-style-type: none"> <li>• When using 1-step technique: Avoid high viscosity contrast between tray and wash material. Especially when using putty materials combine them with a high viscosity wash material. In general, follow manufacturers' recommendations for material combinations.</li> <li>• When using 2-step technique: Carve tray material before applying wash material or use foil as spacer.</li> </ul>
Impression material has low tear resistance	Let the material completely set prior to removal of the impression and use impression material with sufficient tear resistance.
Impression material stored at too low temperature	Temperature influences the viscosity. Store impression material at room temperature. Lower temperatures might lead to higher viscosities.
Incorrect storage conditions of the final impression	After disinfection rinse impressions with water and dry before sending it to the lab. Store impressions at room temperature and away from direct sunlight.
Inadequate disinfection	Use recommended disinfectants. Follow the manufacturers' instructions for use. Do not exceed the immersion time.

**Download 3M's tips at [www.3M.com/GreatImpressions](http://www.3M.com/GreatImpressions)**

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