Common Final Impression Errors

**VOIDS & BUBBLES**

**Problem:**
- Improper syringe technique.
- Air incorporated into syringe while loading material into syringe or tray.
- Blood/saliva contamination around preparation.

**Solution:**
- Always “push” the material ahead of the syringe tip during syringing. Keep expressing syringe material past starting location.
- If using a syringe, load from the front rather than the back.
- Ensure no excess/pooling of moisture.

**TEARING**

**Problem:**
- Poor tear strength of impression material.
- Inadequate space created during retraction.

**Solution:**
- Use Aquasil® Ultra+ Impression Material.
- Ensure > 0.5mm of lateral retraction circumferentially around finish line. The greater the bulk of impression material the more resistance to tearing.

**PULLS & DRAGS**

**Problem:**
- Timing of wash and tray materials not synchronized.
- Tray seated too late.
- Tray movement during material setting.

**Solution:**
- Use a timer to not exceed work time.
- Seat the tray as soon as preparation syringing is complete.

**INADEQUATE MARGINS**

**Problem:**
- Insufficient Tissue Management.
- Insufficient wash material.

**Solution:**
- Ensure good tissue management. At least 0.5mm apical and 0.5mm laterally. No gingivitis or “pumping” sulcus. Clean field is critical.
- Keep syringe tip immersed in material and sulcus and push the material 360° around sulcus.
INADEQUATE TRAY ADHESION

Problem:
• Tray adhesive not used or applied properly.
• The impression material can shrink away from the tray causing distortion that results in a reproduction smaller than the tooth.

Solution:
• Apply one thin even coat of adhesive to tray covering all areas of contact between tray and impression material.
• Follow instructions for use of tray adhesive.

TISSUE CONTACT WITH TRAY

Problem:
• Size and shape of tray is not correct
• Tray is not seated correctly

Solution:
• Fill tray 2/3 full. Use more wash material around preparation and adjacent teeth.
• Seat tray evenly.
• Avoid tooth contact with tray while seating.

ADDITIONAL TIPS:
• Ensure proper occlusion when using double-arch impression trays.
• Bleed material from both cartridge and mixing tip to ensure even dispensing and proper mix.
• Do not store cartridges unsealed and exposed to air.
• Use mixing tips provided by manufacturer too ensure proper mix.
• Use timer from start of mix.

Aquasil® Ultra+
Smart Wetting® Impression Material

Complement good technique with a no compromise final impression material!

+ INTRAORAL HYDROPHILICITY
  CAPTURE DETAIL

+ INTRAORAL TEAR STRENGTH
  KEEP DETAIL

+ PRECISION DELIVERY AND SPEED
  IDEAL WORK AND SET TIMES

©2016 Dentsply Sirona Inc. All rights reserved. MLA-578003 (8/11/16)