

# Dental Products



## Removable prosthetics

### Chairside denture relining using Sofreliner Tough soft lining material

By Dr. Ian E. Shuman. Information provided by J. Morita USA.

**A**s the edentulous patient population continues to grow, so does the need for ongoing clinical care and maintenance of their removable prostheses. The chairside reline technique using a soft, resilient denture liner has proven beneficial for the following:

- Pain caused by sharp ridges of alveolar bone and mucous atrophy
- Poor retention caused by extreme ridge atrophy
- Major undercuts or maxillary/mandibular tori
- Retention of overdentures before the final attachment is placed

Following are step-by-step procedures for chairside denture relining using **Sofreliner Tough** soft lining material.

#### Border outline

1. Outline the denture border using a red marking pen to provide a guideline for the removal of denture base material (Fig. 1).
2. The optimum thickness of Sofreliner Tough material should be 1 mm to 2 mm, so remove 1 mm to 2 mm of acrylic to provide sufficient thickness for the reline material. *Note:* Avoid setting the marginal line on the denture border.
3. For areas that require linings thicker than 2 mm, reline with Tokuyama Re-base II chairside hard denture reline material to obtain the proper thickness for Sofreliner Tough material. *Note:* Material thickness will not affect its cure.

#### Denture base reduction

1. Once the red border has been marked completely around the denture, grind the tissue side of the denture border to the proper depth using the bur provided in the kit or a bur of choice (Fig. 2).
2. Bevel the borders of the denture to allow 1 mm of Sofreliner Tough material to roll over the denture borders.
3. Grind the denture-bearing surface using a round acrylic bur, then thoroughly rinse and dry.

#### Adhesion

1. Apply Adhesive Primer to reduced portion of the denture base. This promotes a chemical bond between Sofreliner Tough silicone and the acrylic denture



**Fig. 1** Use a red marker to create a border line 2 mm above the denture flange.



**Fig. 2** Grind the tissue side of the denture border to the proper depth.



**Fig. 3** Apply Adhesive Primer to all areas to be lined.



**Fig. 4** Inject the paste along the entire denture border area as well as the entire tissue-bearing surface of the denture.

## Technique Sofreliner Tough

Addition-cured silicone automix chair-side soft lining material for dentures.

- Resilient denture liner
- Has no odor or taste
- Offers strong adhesion, exceptional durability
- High resistance to tearing, abrasion, and discoloration
- Can withstand wear up to three years
- Cures in 5 minutes intraorally or 20 minutes at room temperature
- Available in kits and refill
- Separately-sold Silicone Remove helps to easily remove silicone denture liner from the acrylic denture
- Easy to use

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June 2004 AN ADVANSTAR PUBLICATION Printed in U.S.A.



**Fig. 5** Carry the denture to the mouth; seat intraorally with aid of Free Access II Cheek and Lip Retractor.



**Fig. 6** Remove gross excess material using a slightly rounded scalpel blade.



**Fig. 7** Using a white Shape Adjustment Point, round and smooth the angular notches created by blade-trimming.



**Fig. 8** Finish and polish the Sofreliner Tough material using the Brown Finishing Point.

methacrylate resin. Only a single coat of primer is needed, as excess primer diminishes bond strengths.

2. Apply Adhesive Primer to all areas to be lined with Sofreliner Tough material (Fig. 3). *Note:* Primer application on the red borderline will cause the color to appear slightly blue.
3. Allow primer to air-dry in a well-ventilated area for 30 seconds, then thoroughly air-dry the denture.

### Paste application

1. Place the Sofreliner Tough cartridge in dispensing gun and dispense a small bead of paste to ensure even expression of base and catalyst.
2. Place a tip on the cartridge and inject the paste along the entire denture border area as well as the entire tissue-bearing surface of the denture (Fig. 4).
3. Place the Free Access II Cheek and Lip Retractor to enhance access to the oral cavity.
4. Within the two minutes of extraoral working time, carry the denture to the mouth, seat intraorally (Fig. 5), and gently mold border. Let the material set intraorally for 5

minutes, and remove. *Note:* Patients have reported no heat or undesirable taste or odor.

### Adjustment

1. Remove any gross excess material using a slightly rounded scalpel blade such as a lab-handled #20 Bard Parker (Fig. 6).
2. Round and smooth the angular notches created by blade-trimming, using a white Shape Adjustment Point at 15,000 rpm (Fig. 7).
3. Erase the red borderline mark using the same point, which acts as a guide for the exact finishing of the relined material flush against the acrylic denture base.
4. Finish and polish the Sofreliner Tough material using the brown Finishing Point at 4,000 rpm (Fig. 8) to achieve a smooth transition between the material and the acrylic denture base.
5. Try the denture in the patient's mouth, evaluate for fit and stability, and adjust for any occlusal discrepancies.
6. Make surface adjustments using the Round Diamond Trimming Bur under 15,000 rpm. Fig. 9, at lower left, shows the completed relined denture. **DPR**