

# Dentist User Guide

## Removable Partial Dentures (RPDs)

Made from Ultaire™ AKP High-Performance Polymer



Now you can offer your patients a lightweight, comfortable, and aesthetically-pleasing alternative to metal. Solvay Dental 360™ is excited about this innovative high-performance polymer — Ultaire™ AKP. We understand you may have questions about fitting and maintaining these removable partial dentures (RPDs). Answers to several of the most common questions are provided in this guide.

### CHECKING THE FIT

- The frame that was received from the laboratory should be ready for the patient to try-in.
- During the try-in phase, if any discrepancies are noted, coat the guide planes, saddle, and any other areas which may require adjustment with a small amount of occlusal spray or indicating paste.
- Dry the patient's mouth using cotton and/or air.
- Carefully place the partial denture into the patient's mouth and instruct the patient to close. Ask the patient if there are any sore spots.
- Gently remove the partial from the patient's mouth and determine where markings from the occlusal spray or indicating paste transferred to the partial denture.
- Use a tapered, cross-cut carbide burr on low speed to shave with small strokes where markings were transferred on the frame. Continue to shave and smooth until the fit is optimal.

NOTE: Be careful not to shave too much material because the frame cannot be tightened.

### SORE SPOTS

- Apply a small amount of occlusal spray or indicating paste to the tissue side of the partial denture.
- With the partial denture in the patient's mouth, place a cotton roll on each side of their mouth and ask them to gently and evenly close their mouth for 30 seconds.
- Remove the cotton and the frame, and note any discrepancies or marks on the frame from high spots or interference.
- Modify as needed with a tapered cross-cut carbide burr on slow speed with small shaving strokes.

NOTE: Be careful not to remove too much material from the frame.

### SPEECH AND OCCLUSION

- Check speech by having the patient repeat their syllables. If speech is not optimal, make modifications to the acrylic denture base by re-contouring with a standard carbide burr. Do not adjust the Ultaire™ AKP frame.
- Occlusal problems can be detected using occlusal paper or spray to obtain markings. Adjust denture teeth that show markings for optimal occlusion and function.

### CLASP MODIFICATION

- This material will not relax or loosen over time. If a clasp is too tight or putting undue pressure on an abutment, carefully remove the frame from the patient's mouth.
- Apply occlusal spray or indicating paste on the inside of the clasp.
- Return the frame to the patient's mouth. Ask the patient to close their mouth gently.
- Remove the frame to determine any markings and modify as needed with a tapered cross-cut carbide burr on slow speed with small shaving strokes.

NOTE: If necessary to modify a clasp, take great care not to remove too much material because the clasp cannot be tightened and the frame will have to be re-made. Removing too much material may also compromise the strength of the clasp.

### OCCLUSAL RESTS

- Standard rest preparation procedures apply. Make sure the marginal ridge is removed from the abutment. This will allow for optimal build-up (thickness) of material.
- Once the partial denture is fitted in the patient's mouth, apply occlusal spray or insert occlusal paper on the rest areas.
- Ask the patient to gently close their mouth and instruct them to do lateral and protrusive excursions with their mouth.
- Determine if the rest has interference with the occlusion by looking at the markings.
- Make small modifications, as needed, using a tapered cross-cut carbide burr on slow speed with small shaving strokes.

## CLEANING

- It is recommended that patients follow standard RPD protocol for care and cleaning of their Ultaire™ AKP partial dentures.
- Solvay recommends patients use a soft brush, denture cleaner, regular toothpaste, and to store their Ultaire™ AKP partial dentures in fresh tap water when not in use.

## CUSTOM TRAYS

- A custom tray should be prepared for every case.
- The model should be blocked out evenly, not only for undercuts, but also to allow for a consistent thickness of impression material to minimize the potential for distortion.

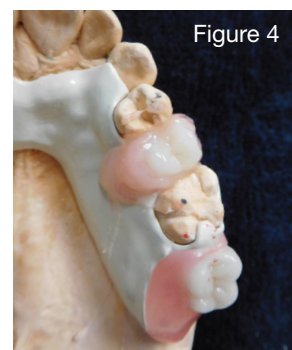
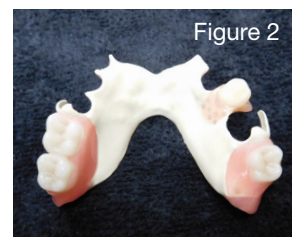
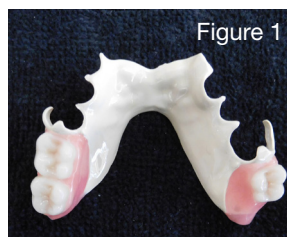
## CLASP REPAIR

- Ultaire™ AKP does not behave like metal or acetyl. Ultaire™ AKP balances rigidity and toughness, making it more forgiving than metal, but more rigid than acetyl.
- If it is necessary to repair a clasp, follow the standard repair procedure of taking a pickup impression of the partial in the patient's mouth and forwarding the partial in the impression to the laboratory.

## ADDING TEETH

If it is necessary to add a tooth to the Ultaire™ AKP partial denture, we recommend proceeding with a process similar to the one detailed below:

- Take a pickup impression of the partial denture in the mouth.
- Create a finish line with a #2 round burr. (Figure 1)
- Prepare meshwork area by making retention holes with a #6 round burr where the tooth will be added. (Figure 3)
- Contour the denture tooth to fit the area.
- Mix acrylic to a dough-like consistency and place in the area where the tooth will be added.
- Position the denture tooth on the frame. (Figure 4)
- Cure for 20 minutes in a pressure pot at 100 degrees Fahrenheit under 20 psi.
- Once cured, check the occlusion and adjust as needed.
- Finish and polish. (Figure 2)



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