

Accu-Dent® impression system

System 2™ Procedural guide

CE

System 2™
For removable
dentate impressions

ivoclar vivadent®
passion vision innovation

The Complete System 2™

Accu-Dent's System 2 is designed for partials, immediate dentures, orthodontics, opposing models, athletic mouthguards, splints, and bleaching trays. All the materials needed for dentate impressions are conveniently combined in the System 2 Kit.



Complete System 2 includes:

- 12 sterilizable Accu-Trays (6 upper and 6 lower)
- 1 box (18 packages) Syringe Accu-Gel
- 1 box (18 packages) Tray Accu-Gel
- 2 sterilizable 35cc syringes
- 1 52cc water measuring vial
- 1 thermometer
- 2 Pre-Sure Tip soft applicators
- 2 Pre-Sure Tip medium applicators
- 1 Plastic Accu-Tray storage box
- 1 Tray Holder
- 1 Finger grip extender
- System 2 complete procedural documentation

The System 2 Accu-Trays



The Upper Accu-Tray® represents a total rethinking of the standard upper impression tray.



The Lower Accu-Tray® is an extremely logical redesign of the stock lower impression tray for removable dentate impressions.

Among the new features are:

1. **The Peripheral Dam** - Supports the Syringe Gel in the vestibules to eliminate thin impression peripheries.
2. **Buccal Pouch Gates** - Releases the high viscosity Tray Gel into the buccal pouches, counteracting the force of the buccinator muscles to prevent thin distal buccal peripheries.
3. **The Palatal Flow Channel** - Directs the flow of Tray Gel up and into the vault of the palate to eliminate voids.

Of the many new features, the most unique are:

1. **The Lingual Power Flanges** - Promote clean, complete impressions of the mandible's lingual surface.
2. **Short Buccal Flanges** - Release Tray Gel out over the buccal shelf in distal extension cases.
3. **Glossal Guidance System** - Guides the tongue upward and forward during placement of the lower tray for clean impressions of the retro-mylohyoid fossa.

The System 2 Accu-Gels



Applied to the mouth with a 35cc catheter-tip syringe, the low viscosity **Syringe Accu-Gel®** eliminates air bubbles around the teeth and in the vestibules. It also allows accurate border molding of the maxillary vestibules and eliminates air voids in the palate.

Each box contains 18 individual hermetically sealed, weight-checked packets and one 35cc catheter tip syringe.

Mixed with 27cc's of 80-85°F water, the Syringe Gel has a setting time of approximately 3 minutes, 30 seconds.



Loaded in the tray and given a surface wash, the high viscosity **Tray Accu-Gel®** is brought to the mouth directly after the application of the Syringe Gel. It supports the Syringe Gel, takes outstanding impressions of the edentulous areas of the arch, and forms the body of the impression.

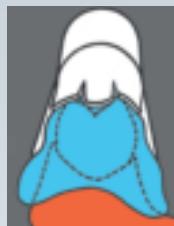
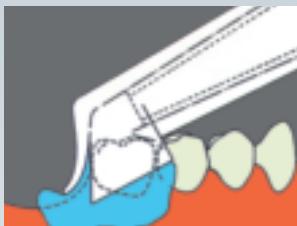
Each box contains 18 individual hermetically sealed, weight-checked packets and one water measuring vial.

Mixed with 52cc's of 80-85°F water, the Tray Gel has a setting time of approximately 3 minutes.

The Pré-Sure™ Tip Applicator



The Pré-Sure Tip confines and directs the dynamic hydraulic pressure of the Syringe Gel down around the teeth and into the gingival crevices, interstices, and into the cusps and occlusal rest preps. Air bubbles literally have nowhere to hide.

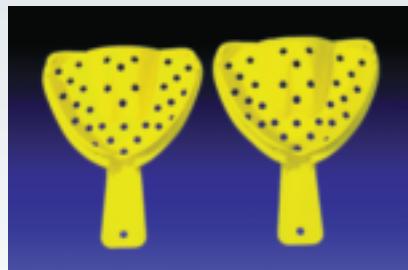


Made of tough autoclavable silicone, Tips should last dozens, if not hundreds of impressions. Soft-Flex or Medium-Flex.

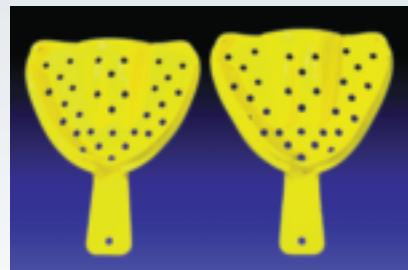
Tray Selection



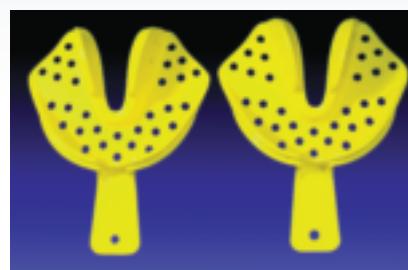
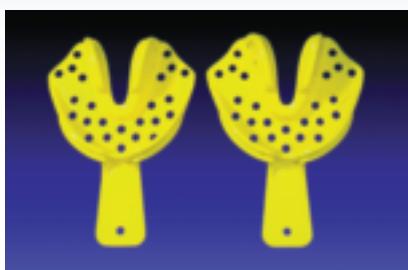
Small



Medium



Large



The procedure for System 2 Accu-Tray selection is about the same as with stock metal trays. However, the selection is more precise because there are two choices of size in each category of small, medium and large.

Maxillary Accu-Tray Selection -

Select a tray whose buccal flanges easily clear the molar teeth or the edentulous maxillary tuberosities.

Mandibular Accu-Tray Selection -

The lingual power flanges must easily clear the inner surfaces of the mandible.

Mandibular Accu-Tray Modification -

Some patients have mandibular tori. In most patients, the Tori Relief cutouts in the Lingual Power Flanges provide sufficient relief. In patients with significant tori, the Power Flanges will strike the tori, causing patient discomfort, and keeping the tray from being pushed down sufficiently over the arch during the impression procedure. The operator can easily modify the lower tray by grinding away more of the Power Flanges opposing these tori with a handpiece and burr. Trays that must be significantly modified to accommodate a patient can be replaced individually by your Accu-Dent distributor.

Operatory Setup



Two impressions require two operatory setups.

A typical setup for one impression includes:

- One packet of Syringe Gel (opened)
- One packet of Tray Gel (opened)
- Two mixing bowls (one small & one medium)
- Two spatulas (Buffalo 11-R, or equivalent)
- One Prè-Sure Tip Applicator firmly on the syringe
- One Accu-Dent 35cc syringe
- Measuring vial
- Selected System2 Accu-Tray
- Water supply with thermometer (third mixing bowl or other container)
- A supply of gauze 2x2's
- Topical anesthetic for desensitizing the palate is optional, but recommended to minimize gagging and mucous gland exudate.

Accu-Gel Mixing Sequence

The mixing sequence is the same for both the upper and lower impressions. Since the Accu-Gels are mixed sequentially, an individual operator, working alone, can easily take a System 2 impression. **ALWAYS MIX THE SYRINGE GEL FIRST.**



- 1** Measure the water carefully. To obtain the proper working time, use 80-85°F (26-29°C) water.



- 2** The second line on the measuring vial equals 27cc's.



- 3** Place the water into a small flexible mixing bowl.



- 4** Empty the Syringe Gel into the water and spatulate the mix for 15-20 seconds, until smooth.



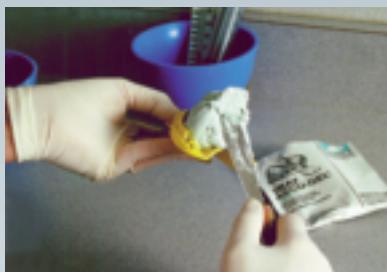
- 5** Backload the syringe with the spatula. Replace the plunger.



- 6** Push the plunger up until Syringe Gel fills the Prè-Sure Tip. Set within easy reach of the operator.

Maxillary Impression

Tray Loading



1 Load the upper tray from the back, making sure that most of the Tray Gel is in the anterior of the tray sloping back to a reduced thickness in the posterior.



2 Shape the Tray Gel and pat out the creases **before** wetting the surface. Once the surface gets wet, it becomes very difficult to smooth out the creases.



3 **Wet, Wet, Wet.**
Under cold running water, gently rub the surface of the Tray Gel for 5-10 seconds until it is glassy smooth.



4 This is the proper shape of the loaded tray. Very deep palates may require more Tray Gel in the front center of the tray.

Maxillary Procedure



5 With a gauze sponge, wipe dry the buccal and labial vestibules, and the vault of the palate.



6 The small pressure chamber is firmly seated over the most distal tooth in the arch. Start the flow of Gel and draw the Tip forward, pressing firmly.



7 Continue the flow of Gel as the Prè-Sure Tip is smoothly drawn forward along the arch. At the cuspid, rotate the Tip 90° toward the labial and...



8 ...continue to express Syringe Gel against the facial surfaces of the anterior teeth past the midline. Keep the Tip pressed firmly against the teeth throughout.



9 Repeat steps 8-10 on the other side of the arch, rotating at the cuspid, and overlapping the first sweep at the midline.



10 Wipe the Prè-Sure Tip across the lingual surfaces of the anterior teeth from cuspid to cuspid.



11 Remove the Pre-Sure Tip from the syringe.

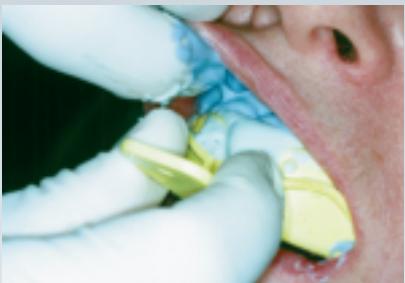
Note: Have the patient relax the upper lip prior to performing the next step.



12 Without the Tip in place, express Syringe Gel into the vestibules from the hamular notch forward to the midline, on one side, then the other.



13 A small amount of the Syringe Gel is applied into the anterior vault of the palate to prevent an air void.



14 Carefully center the front of the filled tray on the midline and push upward until the Tray Gel merges with the Syringe Gel. DO NOT OVERSEAT.



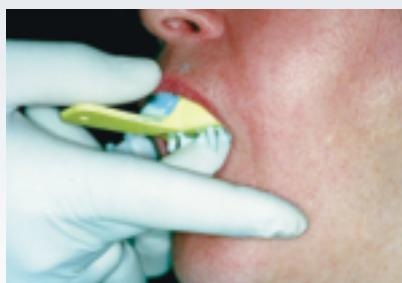
15 Push the back of the tray upward until the Tray Gel appears beyond the distal border of the Tray. STOP any further seating pressure.



16 BORDER MOLDING - Grasp the philtrum at the vermillion border of the lip and pull straight down once.



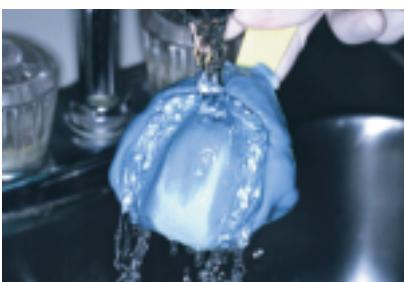
17 Lightly stretch the upper lip and cheeks down over the labial vestibule and the buccal frena with the flat of the fingers.



18 In distal extension cases, have the patient open wide to physiologically mold the periphery posterior to the molar processes.



19 When both impression materials are set in the bowl, break the impression loose at the distal buccal periphery and remove carefully. Do not pull on the handle.



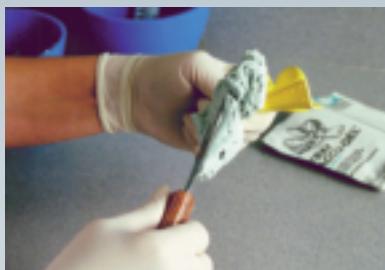
20 Rinse after disinfection and wrap impression loosely in a wet paper towel.



21 Place the handle of the impression in the Tray Holder to minimize pressure related distortion. Rinse again prior to pouring, and pour impression within 5 minutes.

Mandibular Impression

Tray Loading



1 Load the lower tray, making sure to fill to the bottom of the lingual flanges. Overfill the tray where it opposes edentulous ridges (i.e. distal extension cases).



2 Shape the Tray Gel and pat out the creases **before** wetting the surface. Once the surface gets wet, it becomes very difficult to smooth out the creases.



3 **Wet, Wet, Wet.** Under cold running water, gently rub the surface of the Tray Gel for 5-10 seconds until it is glassy smooth.



4 This is the proper shape of the loaded mandibular tray. Remember to overfill the tray opposite edentulous distal extension ridges.

Mandibular Procedure



5 Wipe dry the mandibular buccal and labial vestibules with a dry 2x2 gauze.



6 The small pressure chamber is firmly seated over the most distal tooth in the arch. Start the flow of Gel and draw the Tip forward along the arch.



7 At the cuspid, rotate the tip 90° toward the labial...



8 ...and continue to express Syringe Gel against the facial surfaces of the anterior teeth past the midline. Keep tip firmly against the teeth throughout.



9 Repeat steps 6-8 on the other side of the arch, rotating at the cuspid, and overlapping the first sweep at the midline.



10 Wipe the Prè-Sure Tip across the lingual surfaces of the anterior teeth from cuspid to cuspid.



11 Remove the Pre-Sure Tip from the syringe.

Note: Use a paper towel and twist for easy removal.



12 Without the Tip in place, express Syringe Gel into the vestibules from the hamular notch forward to the midline, on one side, then the other.



13 Carefully center the filled tray on the midline and push downward until the Tray Gel merges with the Syringe Gel in the vestibules. DO NOT OVERSEAT.



14 Push the back of the tray downward until the Tray Gel appears at the distal border of the Tray. STOP any further seating pressure. Have patient push tongue forward.



15 When both impression materials are set in the bowl, break the impression loose at the distal buccal periphery and remove carefully. Do not pull on the handle.



16 Rinse again after disinfection and loosely wrap impression in a wet paper towel. Pour the model within 5 minutes.

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