



# REFLECTION™

Super Hydrophilic Vinyl Polysiloxane  
Impression Material  
Regular & Fast Set

## Instructions for Use

The Reflection Super Hydrophilic Impression system is based on an addition-curing vinyl Silicone formula delivered in automixing dispensing 50ml cartridges, (light, medium, monophasic and heavy viscosities), automixing dispensing 380ml cartridges, (monophasic and heavy regular set viscosities) and hand kneaded putty (soft and firm) formulations. Reflection provides excellent dimensional accuracy and stability, and is perfectly suited for a variety of impression techniques.

Reflection is a super hydrophilic impression material exhibiting excellent surface wettability. This characteristic will result in better reproduction in moist environments, especially the critical subgingival and interproximal areas. Reflection products will stay in position without running, slumping or dripping during the working process, yet they will flow freely as soon as pressure is applied upon seating the impression tray.

Reflection can be used for any type of crown and bridge, denture, partial denture, relines and bite registration impressions. It is available in the following:

Light Body:	ISO 4823	Type 3, ADA/ANSI Spec. No. 19, Type 3
Medium Body:	ISO 4823	Type 3, ADA/ANSI Spec. No. 19, Type 3
Heavy Body:	ISO 4823	Type 2, ADA/ANSI Spec. No. 19, Type 2
Monophase:	ISO 4823	Type 2, ADA/ANSI Spec. No. 19, Type 2
Firm Putty	ISO 4823	Type 0, ADA/ANSI Spec. No. 19, Type 0
Soft Putty	ISO 4823	Type 0, ADA/ANSI Spec. No. 19, Type 0

### Storage and General Use:

- 1) Store at room temperature. Note expiration dates on package and contents.
- 2) Product is designed to be used at room temperature (18-23°C or 65-73°F). Cooler or warmer temperatures will affect working and setting characteristics of the material, e.g.: a 2°C temperature increase will shorten working time approximately 10-15 seconds; a 2°C temperature decrease will lengthen working time approximately 10-15 seconds.
- 3) Reflection Impressions should not be stored in conditions of extreme heat or humidity.
- 4) Impressions can be copper or silver plated.
- 5) Patterson™ HP Dispensing Gun can be sterilized using heat sterilizers, including STATIM Autoclaves, conventional autoclaves, chemical vapor or dry heat sterilizers.
- 6) Reflection working time can be extended if the material is refrigerated. This will also extend the setting time. (See #2 above)
- 7) Reflection Light, Medium, Heavy and Monophase viscosities have a shelf life of three years. Reflection Putty has a shelf life of three years when stored at room temperature. Refrigeration will not extend the shelf life.
- 8) Reflection is an addition reaction silicone material. It cannot be combined with standard or condensation type silicone materials.
- 9) Store used cartridges with mixing tips intact to protect material remaining in the cartridges. Re-using the original cap could cause cross-contamination of base and catalyst components and premature setting or hardening of the material at the tip.
- 10) Always "bleed" the cartridge before each use by extruding a small quantity of material before applying a fresh mixing tip. This will ensure even dispensing of fresh base and catalyst pastes.
- 11) Latex dental gloves or hand lotions could seriously inhibit the setting of vinyl polysiloxane impression materials. Test to ensure compatibility before using material. Polyethylene gloves are recommended.

### Physical Characteristics and Properties of Reflection with regular setting time:

	Light Body	Medium Body	Heavy Body	Monophase	Putty (Firm)	Putty (Soft)
Mixing Time:	Auto.	Auto.	Auto.	Auto.	30 sec.	30 sec.
Working Time:	2 min.	2 min.	2 min.	2 min.	1 ½ min.	1 ½ min.
Intraoral Setting Time:	3 min.	3 min.	3 min.	3 min.	3 min.	3 min.
Max. Compression Set:	0.4%	0.4%	0.8%	0.6%	1.4%	1.4%
Strain in Compression:	4.7%	3.5%	2.8%	3.0%	2.1%	2.6%
Shore A Hardness ca:	45 ca.	55 ca.	63 ca.	62 ca.	72 ca.	68 ca.
Max. Dim. Change:	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%

### Physical Characteristics and Properties of Reflection with fast setting time:

	Light Body	Medium Body	Heavy Body	Monophase
Mixing Time:	Auto.	Auto.	Auto.	Auto.
Working Time:	1½ min.	1½ min.	1½ min.	1½ min.
Intraoral Setting Time:	1½ min.	1½ min.	1½ min.	1½ min.
Max. Compression Set:	0.4%	0.4%	0.8%	0.4%
Strain in Compression:	4.7%	3.5%	2.8%	3.0%
Shore A Hardness ca:	45 ca.	55 ca.	63 ca.	62 ca.
Max. Dim. Change:	<0.1%	<0.1%	<0.1%	<0.1%

## IMPRESSION PROCEDURES:

### I) One Step Technique:

- Recommended Materials A) Putty Soft and Medium (Syringeable)  
B) Heavy (Tray) and Medium (Syringeable)  
C) Medium (Tray) and Medium (Syringeable)  
D) Monophase (Tray) and Monophase (Syringeable)

1) Select and prepare a rigid or custom, perforated or non-perforated tray of sufficient size and height to permit at least 2-3mm thickness of impression material surrounding the prepared and adjacent teeth.

### NOTES:

For the regular setting times the tray must be seated within one minute after extruding Light, Medium, Monophase & Heavy viscosities, and within one minute after mixing the base and catalyst putty pastes. For the fast setting times, the tray should be seated within 30 seconds after extruding Light, Medium, Monophase & Heavy viscosities.

- \*Certain latex gloves and hand lotions will inhibit the set of Reflection. Test beforehand or remove gloves and wash hands thoroughly before using putty.
- \*Certain Hemostatic agents (e.g. ferric sulphate, aluminum chloride) found in retraction cords will also hinder the set of Reflection. Care must be taken to wash and dry contaminated areas before applying the syringe material.

2) Apply a thin, even layer of PVS tray adhesive onto the surface of the tray and allow to dry for at least three minutes.

3) Dry, pack retraction cord(s) and isolate the prepared area with cotton rolls.

4) Dispense Heavy or Medium tray material directly into tray;

OR: Mix equal volumes of Putty Soft base and catalyst pastes and fill tray.

5) Dispense the syringeable material directly into an impression syringe OR use Patterson™ HP Intra Oral tips directly on the mixing tips for direct syringing from the dispensing system. NOTE: If the Heavy or Medium viscosities are being used, we recommend having two dispensing guns. The dental assistant can be loading the tray material while the dentist prepares and injects the syringeable material. Always remember to load the tray so that the area of preparation is loaded last. This assures that the freshest (longest working time) material will be in the area requiring maximum flow characteristics.

6) Remove the retraction cords and inject the syringeable material around the clean, dry preparations. Care should be taken to keep the tip immersed in material while syringing to avoid air pockets and ensure complete bonding of tray material. If using Reflection Putty Soft, make indentations in the areas where the prepared teeth will be seated and fill these with additional injection material before seating. Seat the tray. Tray material should be unset when seated.

- 7) Allow the impression to sit in place until firm. It will be firm, resilient and non-tacky. Minimum removal time is at least 3 minutes in the mouth for the regular set time materials and 1½ minutes in the mouth for the fast set.
- 8) Remove the impression tray by creating a downward pressure along the edge of the tray to break the seal.
- 9) Rinse the impression with water and blow dry.
- 10) Impression can be disinfected with any standard disinfectant, as per manufacturer's instructions, then rinsed and blown dry.
- 11) Impression may be poured after 30 minutes using vacuum-mixed die stone, or after one hour using hand-mixed die stone. If epoxy die material is used, it is best to wait 4 hours after mouth removal. Reflection may be copper or silver plated.
- 12) Reflection impressions may be poured several weeks after mouth removal without loss of accuracy.
- 13) Impression should be kept out of direct sunlight.
- 14) Always replace lids on putty jars and leave used mixing tips on cartridges until next use.

## II) Two Step Technique:

Recommended Materials: Putty Firm and Light (Syringeable) or Medium (Syringeable)

- 1) Select and prepare a rigid or custom, perforated or non-perforated tray of sufficient size and height to permit at least 2-3mm thickness of impression material surrounding the prepared and adjacent teeth.
- 2) Apply a thin, even layer of PVS tray adhesive onto the surface of the tray and allow to dry for at least three minutes.
- 3) Dry and isolate the prepared field.

### Step I: Take Preliminary Tray Impression:

Mix equal volumes of Putty Firm base and catalyst pastes and fill tray. Cover unset material with a plastic spacer sheet, and seat tray. Insert tray while agitating slightly in all directions to make room for the injection material. Allow to set and remove from the mouth before it is completely set and permitted to bench-set while teeth are prepared for the final impression.

### Step II: Take Final Impression:

- 1) Thoroughly wash the initial impression, blow dry and set aside.
- 2) Dry, pack retraction cord(s) if necessary and isolate the prepared teeth with cotton rolls.
- 3) Dispense the syringe material directly into an impression syringe OR use a Patterson™ HP Intra Oral Tip directly on the mixing tip for direct syringing from the dispensing system.
- 4) Remove the retraction cords and inject the syringe material around the clean, dry preparation area. Care should be taken to keep the tip immersed in the material while syringing to avoid air pockets and ensure complete bonding of the material.
- 5) Inject additional syringe material into the preliminary impression, fully covering the relieved areas, and the full arch of the tray made with spacers.
- 6) Reseat the tray carefully being careful not to contact the prepared teeth with preliminary impression material.

### NOTES:

- \*Tray must be seated within one minute after extruding Light, Medium, Monophase & Heavy viscosities, and within one minute after mixing the base and catalyst putty pastes. For the fast setting times, the tray should be seated within 30 seconds after extruding Light, Medium, Monophase & Heavy viscosities.
- \*Certain latex gloves and hand lotions will inhibit the set of Reflection. Test beforehand or remove gloves and wash hands thoroughly before using putty.
- \*Certain Hemostatic agents (e.g. ferric sulphate, aluminum chloride) found in retraction cords will also hinder the set of Reflection. Care must be taken to wash and dry contaminated areas before applying the syringe material.

- 7) Allow the impression to sit in place until firm. It will be firm, resilient and non-tacky. Minimum removal time is at least 3 minutes in the mouth for the regular set and 1½ minutes for the fast set material.
- 8) Remove the impression tray by creating a downward pressure along the edge of the tray to break the seal.
- 9) Rinse the impression with water and blow dry.
- 10) Impression can be disinfected with any standard disinfectant, as per manufacturer's instructions, then rinsed and blown dry.
- 11) Impression may be poured after 30 minutes using vacuum-mixed die stone, or after one hour using hand-mixed die stone. If epoxy die material is used, it is best to wait 4 hours after mouth removal. Reflection may be copper or silver plated.
- 12) Reflection impressions may be poured several weeks after mouth removal without loss of accuracy.
- 13) Impression should be kept out of direct sunlight.
- 14) Always replace color-coordinated lids on putty jars and leave used mixing tips on cartridges until next use.

### NOTES:

- \*Always leave used mixing tip on cartridge until next use.
- \*Patterson™ Intra Oral syringe tips are available to fit directly onto mixing tips.
- \*Patterson™ HP Dispenser may be autoclaved in any conventional sterilizer including STATIM™ Autoclave, conventional autoclaves, chemical vapor sterilizers and dry heat sterilizers.

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**PATTERSON**  
 DENTAL  
 Corporate Office  
 1031 Mendota Heights Road  
 Saint Paul, MN 55120

  
**PATTERSON**  
 DENTAL DENTAIRE  
 Montréal, Québec  
 H3M 3E6