

# Virtual® | Technique Guides



# Virtual® | Product Line



- Extra Light Body
- Light Body
- Monophase
- Heavy Body
- Putty
- Bite Registration
- Accessories

# Virtual®

## Loading Manual Cartridge Dispensers



Press on the black release lever located below the plunger on the back of the dispenser.



Hold the release lever in position and pull plunger as far back as possible.



Lift the cartridge lock and insert the cartridge with the "V" shape on the cartridge base turned downwards. Push the cartridge lock down.



Once the cartridge is secure in the dispenser, remove the cartridge cap by turning it a 1/4 turn counter clockwise. (The impression material will fully polymerize within the mixing tip creating a natural cap.)



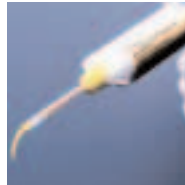
It is **VERY IMPORTANT** to clear or bleed the cartridge **PRIOR** to applying the mixing tip. Gently press on the dispenser lever until both components (base and catalyst) begin to flow out of the cartridge evenly onto a mixing pad.



Insert the mixing tip in a clean motion so that the "V" shaped notch on the coloured base is aligned with the "V" shaped notch on the housing of the cartridge. While gripping the coloured base, and not the mixing tip, turn the mixing tip base 1/4 turn clockwise.



If desired, the corresponding intra-oral tip can be applied to the mixing tip.



Begin mixing by pressing gently on the lever of the dispenser.

## Loading Manual Cartridge Dispensers

### Virtual Accessories

Accessory	Product	Size/Colour	Article Number
Mixing tips	Virtual Mixing Tips 48	small/yellow large/green	572806 572807
Intra-oral tips	Virtual Intra Oral Tips 100	small/yellow large/clear	572809 572808
Cartridge Dispenser	Virtual Manual Dispenser	50 ml	572810
Tray Adhesive	Virtual Tray Adhesive	10 ml	562841

## Important Notes

### Interactions with Vinylpolysiloxane Impression Materials

The setting of vinylpolysiloxane impression materials can be inhibited by latex gloves.

Do not touch tooth surfaces, preparations or retraction cords with latex gloves.

It is recommended that operators wash their hands thoroughly or use vinyl gloves in order to eliminate all traces of impurities, specifically when hand mixing putty. Other materials which may inhibit the set of impression materials include rubber dam, retraction cords and retraction cord fluids. If the operator suspects that the preparation has been contaminated, it is recommended that the preparation be rinsed and dried to eliminate all traces of impurities.

### Impression Material Cartridges

Always bleed cartridges, verifying an even flow of base and catalyst from the cartridge chambers, prior to placing the mixing tip.

### Tray Adhesives

It is highly recommended that a tray adhesive (eg: Virtual Tray Adhesive) be applied to all types of impression trays to reduce the chance of distortion when removing impressions from the mouth.

The use of adhesives in trays has been shown to achieve higher material bond strengths between the vinylpolysiloxane impression materials and the impression trays, than mechanical retention.

### Disinfection

All impressions and bite registrations made with Virtual impression materials should be thoroughly rinsed and disinfected immediately upon removal from the mouth.

Virtual Impression Materials can be immersed in a disinfection solution (eg glutaraldehyde 0.5 % - benzalkonium chloride 0.5 %) for 10 minutes without distortion.

## Putty / Wash Two-Step Impression Technique



Select impression tray and evaluate fit.



Apply tray adhesive to all areas which will come into contact with impression material. Allow the adhesive to air dry for approximately three minutes (or dry it with a blast of oil-free air).



Thoroughly mix equal amounts of Putty base and catalyst (approximately 30 seconds). A proper mix should leave no streaks.



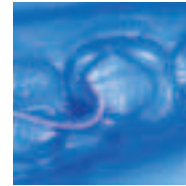
Place the freshly mixed putty into the impression tray forming a shallow dimple for the tooth row.



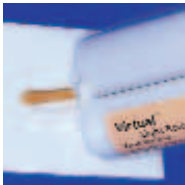
Seat tray into position for the preliminary impression.



Hold tray in place for minimum set time (2 1/2 minutes for Fast Set and 4 1/2 minutes for Regular Set).



After removing impression, use an acrylic bur or scalpel to remove undercuts in the preparation area and cut escape channels for the wash material.



Load Virtual wash material (Extra Light Body or Light Body) into cartridge dispenser and bleed to verify even flow of base and catalyst.



Syringe wash material around the preparation and along the occlusal surface of the complete tooth row.



Syringe wash material into the preparation area of the putty impression.



Seat tray into position.



Hold tray in place for minimum set time (2 1/2 minutes for Fast Set and 4 1/2 minutes for Regular Set).



Check material to verify set and carefully remove the impression. Rinse, dry and disinfect the final impression.

## Putty / Wash Two-Step Impression Technique

### Indications

- impressions for the fabrication of lab-fabricated restorations (crowns, bridges, inlays, onlays and veneers)
- edentulous impressions

### Virtual Impression Materials

Material	Product	Time in mouth	Article Number MultiPack   Refill
Wash materials	Virtual Extra Light Body - 50 ml	Regular Set [4:30]	572813   562827 572812   562828
		Fast Set [2:30]	
	Virtual Light Body - 50 ml	Regular Set [4:30]	572827   562829 572826   562830
		Fast Set [2:30]	
Tray materials	Virtual Putty - 600 ml	Regular Set [4:30] Fast Set [2:30]	562839 562840

### Virtual Accessories

Accessory	Product	Size/Colour	Article Number
Mixing tips	Virtual Mixing Tips 48	small/yellow large/green	572806 572807
Intra-oral tips	Virtual Intra Oral Tips 100	small/yellow large/clear	572809 572808
Cartridge dispenser	Virtual Manual Dispenser	50 ml	572810
Tray Adhesive	Virtual Tray Adhesive	10 ml	562841

### Important Notes

#### Interactions with Vinylpolysiloxane Impression Materials

The setting of vinylpolysiloxane impression materials can be inhibited by latex gloves.

Do not touch tooth surfaces, preparations or retraction cords with latex gloves.

It is recommended that operators wash their hands thoroughly or use vinyl gloves in order to eliminate all traces of impurities, specifically when hand mixing putty. Other materials which may inhibit the set of impression materials include rubber dam, retraction cords and retraction cord fluids. If the operator suspects that the preparation has been contaminated, it is recommended that the preparation be rinsed and dried to eliminate all traces of impurities.

#### Impression Material Cartridges

Always bleed cartridges, verifying an even flow of base and catalyst from the cartridge chambers, prior to placing the mixing tip.

#### Tray Adhesives

It is highly recommended that a tray adhesive (eg: Virtual Tray Adhesive) be applied to all types of impression trays to reduce the chance of distortion when removing impressions from the mouth.

The use of adhesives in trays has been shown to achieve higher material bond strengths between the vinylpolysiloxane impression materials and the impression trays, than mechanical retention.

#### Disinfection

All impressions and bite registrations made with Virtual Impression materials should be thoroughly rinsed and disinfected immediately upon removal from the mouth.

Virtual Impression Materials can be immersed in a disinfection solution (eg glutaraldehyde 0.5 % - benzalkonium chloride 0.5 %) for 10 minutes without distortion.

# Virtual®

## Putty / Wash One-Step Impression Technique | Stock Tray



Select impression tray and evaluate fit.



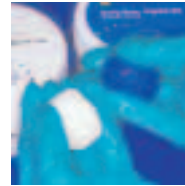
Apply tray adhesive to all areas which will come into contact with impression material. Allow the adhesive to air dry for approximately three minutes (or dry it with a blast of oil-free air).



Load Virtual wash material (Extra Light Body or Light Body) into cartridge dispenser.



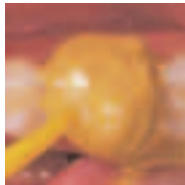
Bleed cartridge to verify even flow of base and catalyst prior to applying mixing tip.



Thoroughly mix equal amounts of Putty base and catalyst (approximately 30 seconds). A proper mix should leave no streaks.



Place the freshly mixed putty into the impression tray and place a shallow dimple in the area of the preparation to create space for additional wash material.



Syringe wash material around the preparation and along the occlusal surface of the complete tooth row.



Seat tray into position.



Hold tray in place for minimum set time (2 1/2 minutes for Fast Set and 4 1/2 minutes for Regular Set).



Check material to verify set and carefully remove the impression. Rinse, dry and disinfect the final impression.

## Putty / Wash One-Step Impression Technique | Stock Tray

### Indications

- impressions for the fabrication of lab-fabricated restorations (crowns, bridges, inlays, onlays and veneers)
- edentulous impressions

### Virtual Impression Materials

Material	Product	Time in mouth	Article Number MultiPack   Refill
Wash materials	Virtual Extra Light Body - 50 ml	Regular Set [4:30] Fast Set [2:30]	572813   562827 572812   562828
	Virtual Light Body - 50 ml	Regular Set [4:30] Fast Set [2:30]	572827   562829 572826   562830
Tray materials	Virtual Putty - 600 ml	Regular Set [4:30] Fast Set [2:30]	562839 562840

### Virtual Impression Accessories

Accessory	Product	Size/Colour	Article Number
Mixing tips	Virtual Mixing Tips 48	small/yellow large/green	572806 572807
Intra-oral tips	Virtual Intra Oral Tips 100	small/yellow large/clear	572809 572808
Cartridge dispenser	Virtual Manual Dispenser	50 ml	572810
Tray Adhesive	Virtual Tray Adhesive	10 ml	562841

### Important Notes

#### Interactions with Vinylpolysiloxane Impression Materials

The setting of vinylpolysiloxane impression materials can be inhibited by latex gloves.

Do not touch tooth surfaces, preparations or retraction cords with latex gloves.

It is recommended that operators wash their hands thoroughly or use vinyl gloves in order to eliminate all traces of impurities, specifically when hand mixing putty. Other materials which may inhibit the set of impression materials include rubber dam, retraction cords and retraction cord fluids. If the operator suspects that the preparation has been contaminated, it is recommended that the preparation be rinsed and dried to eliminate all traces of impurities.

#### Impression Material Cartridges

Always bleed cartridges, verifying an even flow of base and catalyst from the cartridge chambers, prior to placing the mixing tip.

#### Tray Adhesives

It is highly recommended that a tray adhesive (eg: Virtual Tray Adhesive) be applied to all types of impression trays to reduce the chance of distortion when removing impressions from the mouth.

The use of adhesives in trays has been shown to achieve higher material bond strengths between the vinylpolysiloxane impression materials and the impression trays, than mechanical retention.

#### Disinfection

All impressions and bite registrations made with Virtual impression materials should be thoroughly rinsed and disinfected immediately upon removal from the mouth.

Virtual Impression Materials can be immersed in a disinfection solution (eg glutaraldehyde 0.5 % - benzalkonium chloride 0.5 %) for 10 minutes without distortion.



# Virtual®

## Heavy / Light Dual-Phase Impression Technique | Custom Tray



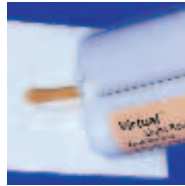
Evaluate fit of impression tray.



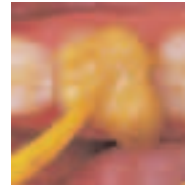
Apply tray adhesive to all areas which will come into contact with impression material. Allow the adhesive to air dry for approximately three minutes (or dry it with a blast of oil-free air).



Load two cartridge dispensers, one with Virtual wash material (Light Body or Extra Light Body) and one with Virtual tray material (Heavy Body).



Bleed cartridge to verify even flow of base and catalyst prior to applying mixing tip.



Syringe wash material around the preparation and along the occlusal surface of the complete tooth row.



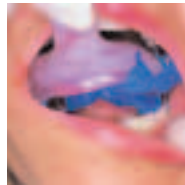
Simultaneously, load tray material.



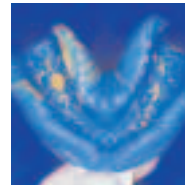
Insert tray into mouth.



Hold tray in place for minimum set time (2 1/2 minutes for Fast Set and 4 1/2 minutes for Regular Set).



Check material to verify set and carefully remove the impression.



Rinse, dry and disinfect the final impression.

## Heavy / Light Dual-Phase Impression Technique | Custom Tray

### Indications

- impressions for the fabrication of lab-fabricated restorations (crowns, bridges, inlays, onlays and veneers)
- implant impressions
- edentulous impressions

### Virtual Impression Materials

Material	Product	Time in mouth	Article Number MultiPack   Refill
Wash materials	Virtual Extra Light Body - 50 ml	Regular Set [4:30]	572813   562827 572812   562828
		Fast Set [2:30]	
	Virtual Light Body - 50 ml	Regular Set [4:30]	572827   562829 572826   562830
		Fast Set [2:30]	
Tray materials	Virtual Heavy Body - 50 ml	Regular Set [4:30] Fast Set [2:30]	572831   562835 572830   562836

### Virtual Impression Accessories

Accessory	Product	Size/Colour	Article Number
Mixing tips	Virtual Mixing Tips 48	small/yellow large/green	572806 572807
Intra-oral tips	Virtual Intra Oral Tips 100	small/yellow large/clear	572809 572808
Cartridge dispenser	Virtual Manual Dispenser	50 ml	572810
Tray Adhesive	Virtual Tray Adhesive	10 ml	562841

### Important Notes

#### Interactions with Vinylpolysiloxane Impression Materials

The setting of vinylpolysiloxane impression materials can be inhibited by latex gloves.

Do not touch tooth surfaces, preparations or retraction cords with latex gloves.

It is recommended that operators wash their hands thoroughly or use vinyl gloves in order to eliminate all traces of impurities, specifically when hand mixing putty. Other materials which may inhibit the set of impression materials include rubber dam, retraction cords and retraction cord fluids. If the operator suspects that the preparation has been contaminated, it is recommended that the preparation be rinsed and dried to eliminate all traces of impurities.

#### Impression Material Cartridges

Always bleed cartridges, verifying an even flow of base and catalyst from the cartridge chambers, prior to placing the mixing tip.

#### Tray Adhesives

It is highly recommended that a tray adhesive (eg: Virtual Tray Adhesive) be applied to all types of impression trays to reduce the chance of distortion when removing impressions from the mouth.

The use of adhesives in trays has been shown to achieve higher material bond strengths between the vinylpolysiloxane impression materials and the impression trays, than mechanical retention.

#### Disinfection

All impressions and bite registrations made with Virtual impression materials should be thoroughly rinsed and disinfected immediately upon removal from the mouth.

Virtual Impression Materials can be immersed in a disinfection solution (eg glutaraldehyde 0.5 % - benzalkonium chloride 0.5 %) for 10 minutes without distortion.

# Virtual®

## Monophase Impression Technique | Custom Tray



Evaluate fit of impression tray.



Apply tray adhesive to all areas which will come into contact with impression material. Allow the adhesive to air dry for approximately three minutes (or dry it with a blast of oil-free air).



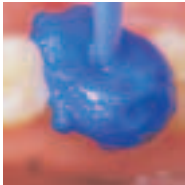
Load Virtual Monophase cartridge into dispenser.



Bleed cartridge to verify even flow of base and catalyst prior to applying mixing tip.



Load impression tray.



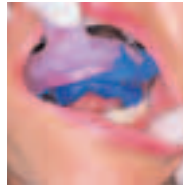
Syringe Monophase material around the preparation and along the occlusal surface of the complete tooth row.



Seat tray into position.



Hold tray in place for minimum set time (2 1/2 minutes for Fast Set and 4 1/2 minutes for Regular Set).



Check material to verify set and carefully remove tray.



Rinse, dry and disinfect the final impression.

## Monophase Impression Technique | Custom Tray

### Indications

- impressions for the fabrication of lab-fabricated restorations (crowns, bridges, inlays, onlays and veneers)
- implant impressions
- edentulous impressions

### Virtual Impression Materials

Material	Product	Time in mouth	Article Number MultiPack   Refill
Wash materials	Virtual Monophase - 50 ml	Regular Set [4:30] Fast Set [2:30]	572829   562831 572828   562832
Tray materials	Virtual Monophase - 50 ml	Regular Set [4:30] Fast Set [2:30]	572829   562831 572828   562832

### Virtual Impression Materials

Accessory	Product	Size/Colour	Article Number
Mixing tips	Virtual Mixing Tips 48	large/green	572807
Intra-oral tips	Virtual Intra Oral Tips 100	large/clear	572808
Cartridge dispenser	Virtual Manual Dispenser	50 ml	572810
Tray Adhesive	Virtual Tray Adhesive	10 ml	562841

### Important Notes

#### Interactions with Vinylpolysiloxane Impression Materials

The setting of vinylpolysiloxane impression materials can be inhibited by latex gloves.

Do not touch tooth surfaces, preparations or retraction cords with latex gloves.

It is recommended that operators wash their hands thoroughly or use vinyl gloves in order to eliminate all traces of impurities, specifically when hand mixing putty. Other materials which may inhibit the set of impression materials include rubber dam, retraction cords and retraction cord fluids. If the operator suspects that the preparation has been contaminated, it is recommended that the preparation be rinsed and dried to eliminate all traces of impurities.

#### Impression Material Cartridges

Always bleed cartridges, verifying an even flow of base and catalyst from the cartridge chambers, prior to placing the mixing tip.

#### Tray Adhesives

It is highly recommended that a tray adhesive (eg: Virtual Tray Adhesive) be applied to all types of impression trays to reduce the chance of distortion when removing impressions from the mouth.

The use of adhesives in trays has been shown to achieve higher material bond strengths between the vinylpolysiloxane impression materials and the impression trays, than mechanical retention.

#### Disinfection

All impressions and bite registrations made with Virtual impression materials should be thoroughly rinsed and disinfected immediately upon removal from the mouth.

Virtual Impression Materials can be immersed in a disinfection solution (eg glutaraldehyde 0.5 % - benzalkonium chloride 0.5 %) for 10 minutes without distortion.

# Virtual®

## Bite Registration Technique | Open Bite – Occlusal Bite Registration



Load Virtual Bite Registration cartridge into dispenser.



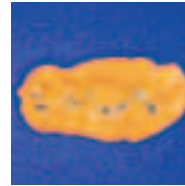
Bleed cartridge to verify even flow of base and catalyst prior to applying mixing tip.



Dispense the Virtual Bite Registration material along the occlusal surface of the teeth.



Have patient close into their normal occlusion relationship, holding the position until the material is completely set (approx. 45 seconds).



Rinse, dry and disinfect the final bite registration.

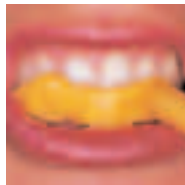
## Bite Registration Technique | Closed Bite – Buccal Bite Registration



Load Virtual Bite Registration cartridge into dispenser.



Bleed cartridge to verify even flow of base and catalyst prior to applying mixing tip.



Have patient close into the desired occlusion relationship and dispense the Virtual Bite Registration material across the buccal surfaces of the teeth.



Have the patient hold the position until the material is completely set (approx. 45 seconds).



Rinse, dry and disinfect the final bite registration.

## Bite Registration Technique

### Indications

- recording of occlusal bite relationships to ensure correct articulation when fabricating indirect restorations

### Virtual Bite registration material

Material	Product	Time in mouth	Article Number MultiPack   Refill
Bite registration material	Virtual Bite Registration - 50 ml	Fast Set [0:45]	572832   562842

### Virtual Accessories

Accessory	Product	Size/Colour	Article Number
Mixing tips	Virtual Mixing Tips 48	large/green	572807
Cartridge dispenser	Virtual Manual Dispenser	50 ml	572810

### Important Notes

#### Interactions with Vinylpolysiloxane Impression Materials

The setting of vinylpolysiloxane impression materials can be inhibited by latex gloves.

Do not touch tooth surfaces, preparations or retraction cords with latex gloves.

It is recommended that operators wash their hands thoroughly or use vinyl gloves in order to eliminate all traces of impurities, specifically when hand mixing putty. Other materials which may inhibit the set of impression materials include rubber dam, retraction cords and retraction cord fluids. If the operator suspects that the preparation has been contaminated, it is recommended that the preparation be rinsed and dried to eliminate all traces of impurities.

#### Impression Material Cartridges

Always bleed cartridges, verifying an even flow of base and catalyst from the cartridge chambers, prior to placing the mixing tip.

#### Tray Adhesives



It is highly recommended that a tray adhesive (eg: Virtual Tray Adhesive) be applied to all types of impression trays to reduce the chance of distortion when removing impressions from the mouth.

The use of adhesives in trays has been shown to achieve higher material bond strengths between the vinylpolysiloxane impression materials and the impression trays, than mechanical retention.

#### Disinfection

All impressions and bite registrations made with Virtual impression materials should be thoroughly rinsed and disinfected immediately upon removal from the mouth.

Virtual Impression Materials can be immersed in a disinfection solution (eg glutaraldehyde 0.5 % - benzalkonium chloride 0.5 %) for 10 minutes without distortion.



These materials have been developed solely for use in dentistry. Processing should be carried out strictly according to the Instructions for Use. Liability cannot be accepted for damages resulting from failure to observe the Instructions or the stipulated area of application. The user is responsible for testing the material for its suitability and use for any purpose not explicitly stated in the Instructions. Descriptions and data constitute no warranty of attributes and are not binding.

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