



TIPS AND TRICKS - BEST PRACTICES FOR IMPRESSIONS.



Perhaps the most important aspect of submitting a case with Ortho Regulation is making sure that you have clear, accurate impressions or intraoral scans. We thought we'd cover some of the basics on the topic of taking impressions.

From your technique to the material and trays used, there are a number of important things to keep in mind when you are taking impressions.

PVS or VPS materials work best for impressions. Alginate is not acceptable because it dries out and the material itself can shrink or expand depending on environmental factors. Be sure to use disposable trays and not metal trays. We don't return tray and when a metal tray is received, the impression has to be processed manually, which can open the door to potential issues with the aligners.

We recommend using heavy body and light body material. Impression techniques that used heavy body and light body seem to get the best results.

Performing a cleaning

damage to the impression.

Before taking impressions removes plaque which can make for better impressions and could reduce the amount of residual spacing at the end of treatment.

Dry the teeth with the air syringe to eliminate saliva bubbles interfering with the details of the impression.

the engager tearing the impression when removed and can cause

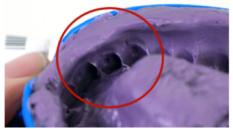
Be sure to remove all engagers before taking impressions. When impressions are taken with engagers still attached to the patient's teeth, there is a possibility of

When applying the light body material on top of the heavy body, it is best to avoid lifting the tip of the applicator. This will help prevent bubbles from forming in the impression. The most common mistake when taking impressions is removing the trays when the material hasn't fully set.

Set a timer and make sure to follow the directions for your material exactly. Discard the first inch of material that comes out of every new mixing tip. We suggest waiting an additional 60-90 seconds longer than instructed before removing the trays from the patient's mouth. Another common issue with taking impressions is getting the distal of the last molars—it can be difficult to get a good

a correctly-sized tray. It should extend past the last tooth in the arch without touching the gums.





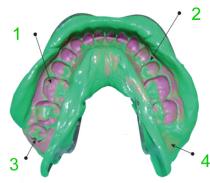


Once you've taken your impressions, before you send them in, take a look at the impression and check the following:

impression since it's hard to see back there. Make sure that you're using

Make sure you have detailed, accurate occlusal surfaces. This will ensure that the aligners will have a tight fit. Make sure all gingival margins are defined and clear. (Includes about 2mm of buccal and lingual surfaces outside gingival margin.) This will ensure enough retention points are present for effective tooth movement.

Make sure that the impression material is intact. Damaged or thin impression material compromises the accuracy of the molds and resulting aligners. Check that there are no imperfections in the impression material. (Make sure there are no voids, bubbles, thin walls, shifts, double imprints, pulls or tears.) Imperfections or double imprints in the impression could affect the effectiveness of treatment with the resulting aligners.



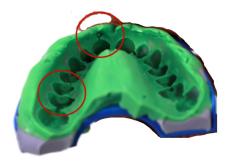


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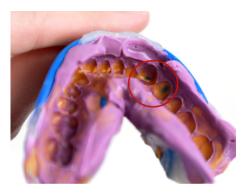
Voids

Insufficient material creates a void in the impression, preventing us from captuing the actual tooth outline.

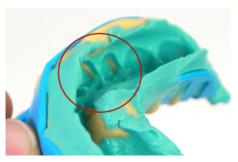


Bubbles

This occurs while the impression material is being distributed, due to the tip being lifted out of the material. Pulling the tip out creates a hollow void that, when more material is distributed on top of it, creates a bubble.



Thin walls are created a number of ways: insufficient material, too small trays, or the tray was pushed in too deep. The material itself captures the majority of the tooth anatomy, however the scanning process (performed at ClearCorrect) does not pick up the tray well (where the tray shows through, as in the image below), leaving that much of the tooth anatomy incomplete or distorted.



Shifts

The tray shifted while the impression material was still setting, creating a double margin on a few teeth.





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Double imprints

When the full arch or quadrant was shifted, normally occurring during a two-step impression.



Pulls

When the impression material starts to prematurely set before it's placed in the patient's mouth it results in a "pulled" effect around the gingival margin.



Tears

Tears occur when the patient has extreme undercuts or black triangles which causes the impression material to lock into the interproximal and tear when removing the impression (to avoid this, use wax to block out undercuts before taking the impression).

Conclusion:

Use a good impression material for example alginate cavex orthotrace or silicone. Don't use two steps impressions method.
Use the right dosing for impression material and time.
Avoid movements during the making of the impression.

Following these best practices can mean the difference between receiving a good treatment setup with aligners, orthodontic appliance, that fit properly or having a difficult case that doesn't track. Make sure you're sending in good impressions for your cases.