

A Simple Method to Check the Border Extensions of Custom Tray.

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ABSTRACT

Proper extensions of custom trays are of supreme importance during border molding and final impression making. This article describes a novel method to evaluate the peripheral extensions of custom trays prior to border molding.

Key words: Border molding, custom tray, peripheral extensions

INTRODUCTION

Denture borders are developed and refined by border molding procedures before and during fabrication of final impressions. The success of a final impression rests on the shoulders of proper peripheral extensions of custom tray. This article describes a technique to evaluate the border extensions of custom trays prior to border molding using the catalyst paste of a polyvinyl siloxane putty material (Aquasil Soft putty, Dentsply Ltd., UK).

PROCEDURE

Take about half a scoop (more or less as determined by the size of the arch) of the catalyst paste and adapt it to the borders of the custom tray, place the tray in the mouth and mold it in the same way as conventional peripheral molding technique.

Check for exposed tray borders and uniformity of the thickness of the catalyst paste which should at least be 1.5-2 mm [Figure 1]. Reduce the exposed tray border.

Confirm a 1.5- to 2-mm thickness of material with a periodontal probe. If necessary, repeat the procedure till a uniform layer of the paste is obtained over the tray borders. [Figure 2].

Finally remove the catalyst paste and manipulate with the base paste to form a putty consistency to do the border molding in a single step as described by Applebaum et al [1]. [Figure 3].

needed for the peripheral molding material [3]. The catalyst paste used in this technique is white in colour in contrast to the pink colour of the custom tray, which makes it easy to identify the over-extensions. The major advantage of this technique is that the catalyst paste can be reused again for one step border molding thereby reducing wastage of material. Also this technique is very simple to comprehend and practise. The chair-side time required is minimal and is very cost effective as no additional materials are required.



Figure 1: Overextended custom tray showing exposed borders.



Figure 2: Corrected extension of custom tray.

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DISCUSSION

Disclosing wax can be used to verify the extensions of the processed denture [2], but these materials cannot be used successfully to evaluate the custom tray extensions because a 1.5- to 2-mm clearance is



Figure 3: Single step border molding.

REFERENCES

1. Appelbaum EM, Mehra RV. Clinical evaluation of polyvinylsiloxane for complete denture impressions. *J Prosthet Dent* 1984;52:537-39.
2. Logan GI, Nimmo A. The use of disclosing wax to evaluate denture extensions. *J Prosthet Dent* 1984;51:280-1.
3. Namratha N, Shetty V. A technique to evaluate custom tray border extensions before peripheral molding. *J Prosthet Dent* 2014;112:1603-4.

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