

CASE STUDY 5.07



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“Finally, a permanently soft and comfortable soft liner”

INTRODUCTION

Are you also fed up with the soft layer of the denture base coming off?

False promises over and over again when it comes to quality liners with a longer life-span than a few months.

I was therefore pleasantly surprised when I got to know **Mucopren®** soft from Kettenbach.

A relining material, based on vinyl polysiloxane, for direct or indirect use, which actually did bond well.

The first permanently soft and comfortable soft liner!

MUCOPREN® SOFT

CASE STUDY

M U C O P R E N[®] S O F T

DIRECT AND INDIRECT APPLICATION:



Thoroughly clean the denture base with water only, and dry.



Then remove sufficient denture material up to the amount of the desired layer of permanently soft relining material with a bur. In order to achieve a good transition of permanently soft relining material to the denture acrylic in the vestibular area, it is recommended that you cut in a right-angled edge.



Apply Mucopren[®] Adhesive with a brush onto the cleaned, prepared and roughened denture surface using a brush twice with an interval of 30 seconds.

Now allow to dry well before proceeding. It is important that the adhesive is applied over and past the edge.



With the help of the application gun, apply Mucopren[®] soft (not the sealing silicone) evenly and insert directly into the patient mouth or plaster model.



In the mouth: During the remaining working time, make the Mucopren[®] soft silicone material flow well through active and passive functional movements, so that it achieves an individual and desired fit and requires only local final treatment.

On the model: First place the plaster model in lukewarm water for 10 minutes and then separate (use an agent that will form a micro film



CASE STUDY

M U C O P R E N[®] S O F T

e.g. Isolant[®] from Dentsply). Place the denture with the still workable Mucopren[®] soft onto the model and press fast. Surplus Mucopren[®] soft can be wiped off and smoothed with soap suds. Your fingers are best suited to do that.

ACTIVATING THE ADHESIVE:



The permanence is vitally dependent on the activation of the adhesive. By placing the denture with the soft reliner in a water bath (45 – 50 °C) for 15 – 20 minutes directly after removing it from the patient's mouth, one will receive a permanent super bond of the Mucopren[®] soft to the denture material.

During indirect relining, the relining apparatus or cuvette must be placed in a pressure pot with hot

water of 45 – 50 °C for at least 30 minutes in order to achieve the same hardening time. After that, the possibly sealed denture can be placed in the pressure pot (45 – 50 °C) for at least 45 minutes with or without the plaster model.

FINISHING:

The local finishing is carried out by first removing surplus material with a pair of fine scissors. Steel burs with cross cuts are suitable for course finishing of permanently soft relining materials, which will then receive a smooth and seamless surface with the especially designed polishing instruments. (I myself work with the Soft Reliner Polishing Set from Edenta, Order-Nr: 2110 SO.) Thanks to these special polishing discs, the sealing silicone is normally not needed anymore!



An astonishing result with a guaranteed wearing period of at least one year! The roughened synthetic



surfaces can be polished using the usual procedures. If polishing fat is used, this must first be thoroughly removed (with hot water) if sealing silicone is still to be applied.



CASE STUDY 5.07

M U C O P R E N[®] S O F T

SEALING SILICONE:



If desired, a thin layer of Mucopren[®] sealing silicone can be applied to the completely finished surface of the permanently soft relining material.

It is recommended to place the appropriate amount of Mucopren[®] sealing silicone in an appropriate cup (see plastic insert) and to spread with a brush within

90 seconds. After 6 minutes and 30 seconds the Mucopren[®] sealing silicone will not stick anymore. After that the denture can already be worn in the mouth.

Attention: The final mechanical properties of the sealing silicone are only achieved after the denture is placed in a pressure pot with 50°C warm water again afterwards for 45 minutes, or has been worn in the mouth for several hours.

WORKING AND SETTING TIMES*

	Total working time	Intra-oral time:	Setting time
Direct relining	2 min 15 sec.	3 min 15 sec.	> 5 min. 30 sec.
Indirect relining	2 min 15 sec.	n/a	> 30 min. in a pressure pot

* If the product temperature deviates significantly from 23° C this will have an effect on the working and setting times. The water temperature and the time in the water bath are decisive factors for an ideal bond.

PATIENT INFORMATION

Due to the applied sealing silicone (in the direct technique), the patient may only have a meal again after 2 hours. Mechanical cleaning of the denture is only permitted after the second day.

Cleaning of the denture can be carried out with all current cleaners, e.g. (carefully) with a soft tooth brush and tooth paste.



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