## **Basic principles of thermoforming:**

- The models should consist of hard plaster (class 3).
- For thermoforming the hard plaster can contain residual moisture but must not be wet.
- For a good adaptation the hard plaster must be permeable to air, especially hard plasters for the orthodontic field do not always
  ensure this. Like when using plastic models or varnished models that are impermeable to air, this leads to incomplete adaptation
  because in most cases air cannot escape completely between the model and the foil.
- The removal of hard materials very often leads to a break of models. The use of super hard plaster does not solve this problem,
  it is better to thermoform on a duplicated model.
- It is useful to embed the models for thermoforming as far into the high grade steel granules that only the area that has to be thermoformed plus 3 mm is visible.
- The granules allow a quick adaptation of the thermoforming materials and a very simple limitation of the model height.
- When working on the model disc ensure that the model base is trimmed flat.
- Model preparation: Areas of the model (exterior vestibulum, oral floor) which obstruct the thermoforming process have to be removed. Remove sharp plaster edges.



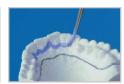
Fill narrow gaps between the teeth with Erkogum (transparent 110 844/lilac 110 847).



Remove positive plaster bubbles.



Fill negative plaster bubbles and small defects with blocking out wax (transparent 725 080/lilac 725 055).



If the splint covers the gingival margin, relieve it with Erkoskin (625 050).



When there are large undercuts, mark the prosthetic equator to limit the height.

- The adaptation of thermoforming materials always means a stretching respectively a thinning of the original material thickness.
   A rough orientation is: 1 cm model height corresponds to 20-25 % loss of thickness. For this reason it is expedient to embed the models into the granules.
- All Erkodent thermoforming materials are physiologically harmless, they are listed by the Health Authorities and are CE marked according to the EC directive 93/42/EEC with changes as per 2007/47/EC.
- Pay attention to the regulations for operational safety.

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ISO 9001:2008 • ISO 13485:2012