Instructions

Materials & Accessories

Fabrication:

- Erkoflex, flexible, transparent and coloured, 2.0 and 4.0 mm Erkodur-S, hard, 0.8 mm as hard insert for sports mouthguard heavy-pro and light-pro
- Degreasing agent (613 050)
 Alginate based insulation
 Commercially available fusing gun, ≥ 500 W with screw-top (special top for fusing gun 177 010)
- Erkoflexsticks-95/-82 (177 006/177 005)
 Cover templates (110 900)

Model preparation:

Erkogum (110 844) for blocking out, high-fusing wax (725 080) for filling bubbles in the plaster.

Finishing:

Finishing set Quick 3 (110 830) • Special scissors XL (220 301) • Hot air burner (177 540) • FG sheets (177 400)

Hints

- For an optimum mouthguard the upper jaw model should represent the vestibulum completely.
- For determining the bite situation, ideally a construction bite (prebite Dott. Pelosi up, 85 10 16) with a spacing of 4-5 mm should be available.
- . If the model is insulated, the insulating material must be washed off before using the hot-air burner in order to avoid black stains.
- If Erkoflex transparent shall be used as second layer, remove the insulating foil before thermoforming.
- With Playsafe 4u almost each favorite design on all Playsafe triple types and on Erkoflex based sports-mouthguards is possible (www.erkodent.com).

Sport mouthquard types:

light:

Erkoflex 2.0 mm + Erkoflex 2.0 mm medium:

Erkoflex 2.0 mm + Erkoflex 4.0 mm light-pro:

Erkoflex 2.0 mm + Erkodur-S 0.8 mm + Erkoflex 2.0 mm

heavy-pro:

Erkoflex 2.0 mm + Erkodur-S 0.8 mm + Erkoflex 4.0 mm

A sports-mouthguard is always fabricated for the upper jaw. To protect the root zone, it covers as much as possible of the vestibulum.

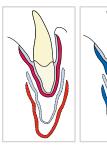
- 1. Model preparation: Fill plaster bubbles with blocking out wax. Block out undercuts of a possible gap (special case) with Erkogum.
- 2. Embed the model in a way that the entire vestibulum remains visible.
- 4. Special case: On the first layer the gap is filled with Erkoflexsticks-95/-82 (fusing gun).

Smooth applied stick material with Liskosil-I.

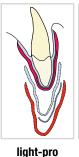
6.-11. only light-pro / heavy-pro:

The hard Erkodur-S (0.8 mm) completely covers the vestibular area and just barely the incisal edge and the vestibular/buccal edge.

- 8. Degrease visible area (degreasing agent 613 050, ensures a reliable bond of the layers).
- 10. Take the foil compound off the model and roughly cut out with the scissors.







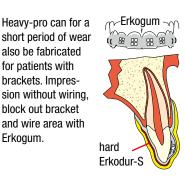


brackets. Impression without wiring, block out bracket and wire area with Erkogum.

Heavy-pro can for a

also be fabricated

for patients with







special case

light

























The sports-mouthguard covers the first molar.

The increase of occlusion is 4-5 mm at the incisal point. In most cases the blockage is done on average values.

- 3. Always thermoform the first layer (Erkoflex 2.0 mm) together with the ex works applied insulating foil and allow to cool down. Cut out with special scissors. leave everywhere a little bit longer as the final mouthquard.
- 5. Do not attach type labels near to the fraenulums. The labels are readable from the inside. For a transparent sport mouthguard there are labels available that are readable from the outside.
- 7. Embed model with the first layer into the granules, only the area of the later hard Erkodur-S layer plus 2 mm remain visible.
- 9. * Position of the hard layer at patients with vestibular brackets.

Additionally degrease the side of the Erkodur-S that has to be applied onto the first layer and thermoform.

11. First with the tungsten carbide bur, then with Liskosil-I grind and smooth the hard protruding edge.

The limitation of Erkodur-S is visible as a line. Reput the first layer onto the model and ...

- 12. Without Occluform/-3: ... embed the model (2) and apply a cover template. Well degrease first layer(s) and the model side of the second plate. Pay attention to the alignment of model and multi-coloured plates.
- 14. Cut out the mouthguard with special scissors as per the extensions described formerly, exposing the area around the fraenulums well.
- 16. ... in case of larger air pockets press on with a FG-sheet.

Smooth with Lisko sil-I and narrow spaces with Liskosil-m (10 000 rev/min). Inner side only with Liskosil-s.

- 18. Imprint opposing bite in the articulator: Fix model with the worked mouthguard in the articulator. Block 4-5 mm with the supporting pin. Insulate opposing bite with alginate based insulation (lower jaw teeth).
- 20. Make imprint of the opposing bite and allow to cool down.

For a much better wearing comfort grind away the details of the impression with Liskosil-I whilst retaining a vestibular wall.

22. With Occluform-3: Imprint the opposing bite during thermoforming: *

Fix the model in the model pot that high that the first layer can be put back onto the model.

- 24. Insulate the opposing bite with alginate based insulation (colourless). Cover the granules with a cover template. Degrease well the first layer and the model side of the second layer.
- **26.** After cooling down open the Occluform and take out the model together with the model pot.

Finish as described in step 13-17.

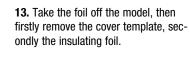
Pay attention to the cleaning and maintenance instructions.





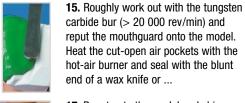








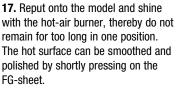
















19. Heat occlusal surface of the mouth-

Thereby stroke the hot-air burner slowly about 20 times over the occlusal surface.

21. Heat occlusal surface one more time

Pay attention to the cleaning and main-

and close the articulator.

tenance instructions.

Finished sports-mouthguard.





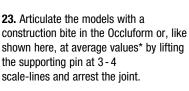












*only Occluform-3

- 25. Thermoform the second foil and immediately close the Occluform until the supporting pin gets contact.
- * The imprint can also be made using the bite spacer according to the Playsafe triple instructions.
- 27. Finished sports-mouthguard.

With Playsafe 4 u almost each favorite design on all sports-mouthguard types is possible (www.erkodent.com).





Playsafe readaptation, a laminated sports mouthquard can be easily readapted to a changed dentition. Please ask for the instructions or find under www.erkodent.com > Service/Download > Instructions

Instructions for cleaning and maintenance

Best results are achieved with **0xvdens** cleansing tablets for dental splints (280 030, 0xvdens Clean-set, 280 032, 32 cleansing tablets). Further cleaning agents: Soap, curd soap, liquid soap and dish-washers. Do not use any strongly perfumed soaps. Not suited are: tooth-paste (contains abrasive particles), mouth-wash (can cause discolouring) and water that is hotter than 50 °C (deformation). Solvent-based cleaning agents cause delamination of multi-layered splints.

After use: Wash well with water. Best is to thoroughly clean the inner and exterior side of the splint with a tooth brush and soap.

- Again, wash well with water. Shake off the water or dry with a towel, never blow-dry deformation!
- Very important: Allow the splint to completely dry! Keep at a dry place, at best in a box like the Erkobox (215 030) or Splintbox (214 020) that has aeration holes. • Again, wash with water before using it.

