

Instructions for use **FORESTACRYL®**

1. Purpose

FORESTACRYL® is a cold polymerizing synthetic material for manufacturing appliances for orthodontic treatment.

2. Application

Securing retention and regulation elements for manufacturing removable treatment appliances.

3. Material

*FORESTACRYL® Liquid (monomer) consists of methyl methacrylate (MMA).
FORESTACRYL® Powder (polymer) consists of polymethyl methacrylate (PMMA).
Observe the safety data sheet during application.*

4. Contraindication

If there is a known allergic reaction to plastics, a particular allergy related to methyl methacrylates (MMA, PMMA) must be excluded.

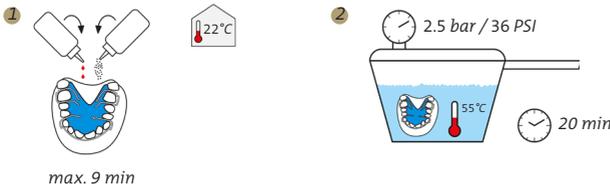
5. Setting up

*Attaching the retention or regulation elements by way of waxing.
Insulate the model in accordance with the processing instructions of the manufacturer of the orthodontics insulating agent.
Remember that the model is watered thoroughly and ideally still slightly moist, otherwise bubbles will form when the plastic polymerizes.*

6.1 Spray method

Fill the sprinkle bottle - order no. 416-0001 - with effective aluminium spray nozzle - order no. 416-1000 - with powder and the spray bottle - order no. 416-0010 with liquid. If colouring is desired, add colour concentrate to the liquid according to the required colour intensity. Then hold the model at an oblique angle, spray on the powder and cover with the appropriate amount of liquid. Repeat this until the required plate thickness is achieved (please note the maximum mixing time of 9 minutes). The FORESTADENT expansion screws are coated with a thin microfilm layer. This guarantees that the screws are easy to undo after polymerisation. It is therefore important to ensure that the screws are not cleaned before use. After the acrylic layer has dried, the plates must be polymerised in a pressure vessel at 2.5 bar / 36 PSI in water at approx. 55 °C for about 20 minutes.

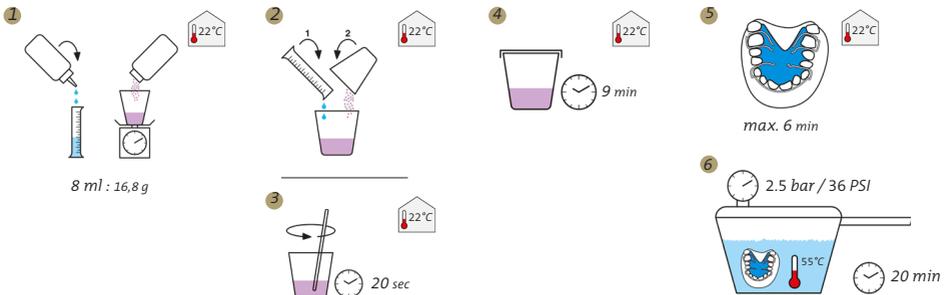
Re. 6.1 Method A – Spray method



6.2 Doughing

We recommend using a mixing bowl. The mixing ratio requires 8 ml liquid to 16.8 g (24 ml powder). Carefully stir the powder into the liquid for 20 seconds so that the mixture is as free of bubbles as possible (please note the maximum mixing time of 9 minutes and the room temperature of 22 °C). Apply the viscous mass to the previously moistened plaster model. Hold the model at an angle, adjust as needed as you pour on the liquid to the desired thickness. The now starting second phase enables the dough-like firm acrylic to be shaped on the model (6 minutes maximum working time). After the polymer material has dried, the model must be polymerised in a pressure vessel at 2.5 bar / 36 PSI in water at approx. 55 °C for about 20 minutes. Start of polymerisation (slight heat) after 14-15 minutes, final temperature (hot) after approx. 16-18 minutes.

Re. 6.2. Method B – Doughing



7. Final design

FORESTACRYL® Synthetics can be processed with milling and polishing tools for plastics technology that are commonly used in orthodontics. Please consider the appropriate protective equipment (face protection / eye protection).

8. Water storage

In order to reduce the residual monomer content, the application must be kept for several days in a closed refrigerated container immersed in water (3 days).

9. Cleaning and care instructions

The appliances can be cleaned with toothpaste and a toothbrush. Other cleaning agents: soap, curd soap, liquid soap and detergent; rinse well with water after cleaning. Do not use strongly fragranced soaps.

Disinfection with standard disinfectants for orthodontic synthetics is possible. Observe the manufacturer's instructions of the disinfectant manufacturer.

10. Warnings and caution

- *FORESTACRYL® is only recommended for the above-mentioned applications.*
- *FORESTACRYL® may only be handled and used by trained specialist personnel.*
 - *The product must not be used if there are any known hypersensitivities and a risk of possible allergic reactions to methyl methacrylate.*
 - *If there are complications, countermeasures must be taken, e.g.: Remove the product and choose alternative treatments, if necessary.*
- *For single use only.*
- *Observe the storage instructions.*

When the products are used, the appropriate safety measures must be taken in accordance with the safety data sheet.

11. Storage and durability

Store FORESTACRYL® in a cool and dark place to avoid premature polymerization.

When using, protect against contamination by foreign substances such as dust etc. and immediately close the container.

Observe the limited durability - see date on the label.

12. Material specifications

- *Contains methyl methacrylate and ethylene dimethacrylate.*
- *Contact may cause skin irritation and allergic reactions.*
- *Fumes may cause eye and respiratory irritation.*
- *Wear eye, face and hand protection during handling.*
- *Observe the safety data sheets for the product.*

13. Disposal

Comply with regional or national regulations, taking into account the information in the safety data sheet.



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