DURASPLINT®

Processing Information

Description:

DURASPLINT® is a highly transparent cold cure resin, characterized by easy mixing, controlled modelling, excellent stability, great variety of application, easy polishing and optimal grinding properties. It is fabricated on the base of methyl methacrylate, is cadmium-free and contains tertiary amines for polymerization. When properly processed, the material meets the specifications for biocompatibility of medical devices in accordance with the applicable guidelines.

Indication:

DURASPLINT® is solely destined for adjustments on pressure moulded splints such as adjusted occlusal splints, CMD splints and mandibular protrusion splints. In single cases, even the fabrication of complete splints is possible. However, splints made of DURASPLINT® have a certain brittleness compared to pressure-moulded splints. This should be taken into account when measuring the models beforehand to exclude any breaks.

Contraindication:

The product should not be used if there is a known intolerance to PMMA or dibenzoyl peroxide.

Preparation:

The best thermoforming results are achieved using a high-performance pressure-moulding unit such as the BIOSTAR® or MINISTAR S® machine. Once the splints have been thermoformed, make sure to finish them only coarsely along the model base to prevent thermal tensions or unprecise fitting of the splints due to the polymerisation of DURASPLINT®. Ensure to remove the splint from the model only once polymerisation is finished.

Isolating the model:

Apply just a thin layer of orthodontic insulating agent (REF 8364) to the antagonist jaw.

Processing/ Application:

Mix DURASPLINT® in a RESIMIX® cup according to the below recommendations and apply it directly to the splint material (DURASOFT® pd or DURAN®), in case of major adjustments for anterior tooth or canine guidance a silicone wall may be used to facilitate modelling. Excess of monomer can be removed by blowing dry shortly the adjustments. Splint junctions as well as slightly polymerised areas (white coloration) can be moistened with monomer using a brush. For best results, we recommend sandblasting the splint surface with aluminiumoxide (50 µm, 2 bar).

Working parameters
The indicated data are recommended standard values that might be influenced by external factors such as room temperature.

Processing time:	5 – 8 min.	**Mixing ratio in volume fractions:** 1 (monomer) : 2.5 (polymer)
	This results in the following recommended quantities for use with the supplied dosing cups:	
	Partial adjustment (e. g. anterior tooth guidance)	**4 ml** monomer : **10 ml** polymer
	Complete adjustment	**8 ml** monomer : **20 ml** polymer
Polymerisation:	Temperature approx. 45 – 48 °C / ~ 113 °F. ◆ pressure 1.8 – 2.0 bar / ~ 30 psi ◆ time 15 – 20 min.	
	DURASPLINT® can be used in the "salt and pepper" technique, too.	
Hint:	In case the temperature is set too low, the product does not polymerise and cure completely.	
	In case the temperature is set too high, the material might turn yellow.	

Colouring:

DURASPLINT® can be used with all available STEADY-RESIN coloured monomers.

Finishing:

Once polymerisation is completed, DURASPLINT® adjustments can be finished using HM carbide cutters and polished conventionally. The use of respiratory protection or suction device is recommended. Ensure to place the finished splint for several hours in water to minimise the residual monomer content.

Storage:

Polymer and monomer bottles shall not be exposed to direct sun or heat, as polymerisation reactions might occur. The material shall always be stored in closed bottles in dry, cool places (at 25 °C max.), protected against light.

Hazard warning:

Liquid is highly flammable! May cause irritations of eyes, skin and respiratory system. Keep away from all sources of ignition, store at well-ventilated places, prevent liquid from entering canalisation. Avoid longer skin contact with not polymerised material as well as inhalation of monomer vapours.
Material Safety Data Sheets are available on request or can be downloaded at www.scheu-dental.com/en/downloadcenter. To be used only for the above indication and by qualified personnel. For single use. Serious incidents in connection with the use of the product must be reported immediately to the manufacturer and the competent authority!

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SCHEU-DENTAL GmbH
www.scheu-dental.com
Am Burgberg 20
58642 Iserlohn · Germany
phone +49 2374 9288-0
fax +49 2374 9288-90
Facebook
scheu.dental

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