STEADY-RESIN

Processing information

Description:
STEADY-RESIN is a highly transparent cold-cure resin, specifically designed for orthodontics and available in three different polymer versions – S, M and VARIO – in accordance with the different processing types (see below). All STEADY-RESIN monomers can be combined with all STEADY-RESIN polymers. STEADY-RESIN is fabricated on the base of methyl methacrylate, contains no cadmium and contains tertiary amines for polymerisation. If properly processed, it complies with ISO 10993 and ISO 7405 in terms of its biocompatibility. Coloured mica (available in silver, gold, blue, red, green, rainbow, rainbow green, rainbow violet / REF 8144-8152) can be added to polymer; however overdosing can affect the polymerisation process or the stability.

Indication:
STEADY-RESIN is intended solely for dental explications and indicated for expansion plates, retainers, activators, splints with adjusted surfaces etc.

Preparation:
It is recommended to put the models in warm water at a temperature of 35°-40° C for about 10 min. in order to avoid bubble formation at the basal surfaces.

Isolation:
Apply one thin layer of orthodontic insulating agent (REF 8364) to the models.

Processing:
STEADY-RESIN S used for the so called "salt-and-pepper" technique is characterized by excellent stability. The resin is directly applied to the model that has been insulated with orthodontic insulating agent. Apply monomer first and then alternately apply polymer and monomer using the spray bottles (REF 8141) and spray nozzles (REF 8138/8139). The last layer to be applied before the polymerisation process should be monomer again.

STEADY-RESIN M for the modelling technique is distinguished by excellent values in terms of flowability and processing range. It is mixed in RESIMIX® cups prior to applying it to the model that has been pre-treated with orthodontic insulating agent.

STEADY-RESIN VARIO can be used universally for both, the salt-and-pepper and the modelling techniques thanks to the extended processing time.

Working parameters:
The indicated values are to be understood as recommendations only and may be affected by room temperature and mixing ratio.

Processing time:	6 - 8 minutes
Mixing ratio:	STEADY-RESIN S 10 : 4 Weight proportion polymer : monomer
	STEADY-RESIN M / STEADY-RESIN VARIO 10 : 5 Weight proportion polymer : monomer
	This mixing ratio corresponds to about 2.7 : 1 volume of polymer : monomer.

Polymerisation:
Curing shall always be carried out in a pressure pot filled with clean water; polymerisation shall not be interrupted and the values given below should be neither higher nor lower. Any change to the parameters can lead to the formation of bubbles, inhomogeneity, increased shrinkage and higher residual monomer content.

Temperature:	Approx: 45-48 °C / ≈ 113 °F
Pressure:	1.8 - 2.0 bar / ≈ 30 p.s.i.
Time:	15 - 20 min.

Finishing:
Once polymerisation is completed, STEADY- RESIN can be finished and polished conventionally using carbide cutters. The use of respiratory protection or local exhaust systems is recommended. In case of highly sensitized patients it is recommended to place the appliance in water for several hours to minimize the residual monomer content.

Shelf life/storage:
For information on the durability of the polymers and monomers see label imprint. Processing after the expiration date should be subject to prior examination of the product. Once the resin has been filled in the transparent dosing bottles, these must be protected from direct sunlight, as this may lead to polymerisation reactions and to changes in colour. The resin should always be stored in sealed dry containers at a temperature of max. 25 °C and protected from light.

Hazard warnings:
The liquid is easily flammable! The liquid causes irritations of the eye, skin and respiratory tracts. Keep away from sources of ignition and keep well ventilated, do not allow to enter the sewage system. Prolonged skin contact with uncured material and inhalation of monomer vapours can lead to irritations. In individual cases, components of STEADY-RESIN may cause allergic reactions (eg. methyl methacrylate, N.N-Bis (2-hydroxyethyl-p-toluidin or dibenzoyl peroxide). Observe the manufacturers' safety data sheets.

Delivery program:

STEADY-RESIN Coloured monomer

blue	100 ml	REF 8351.1	0.25 l	REF 8351.2
yellow	100 ml	REF 8352.1	0.25 l	REF 8352.2
red	100 ml	REF 8353.1	0.25 l	REF 8353.2
black	100 ml	REF 8354.1	0.25 l	REF 8354.2
green	100 ml	REF 8355.1	0.25 l	REF 8355.2
violet	100 ml	REF 8356.1	0.25 l	REF 8356.2

STEADY-RESIN Neon monomer

neon pink	100 ml	REF 8350.1	0.25 l	REF 8350.2
neon red	100 ml	REF 8357.1	0.25 l	REF 8357.2
neon yellow	100 ml	REF 8358.1	0.25 l	REF 8358.2
neon green	100 ml	REF 8359.1	0.25 l	REF 8359.2
neon blue	100 ml	REF 8360.1	0.25 l	REF 8360.2
neon orange	100 ml	REF 8361.1	0.25 l	REF 8361.2

STEADY-RESIN S

Polymer	1 kg	REF 8134.1

STEADY-RESIN M

Polymer	1 kg	REF 8135.1

STEADY-RESIN VARIO

Polymer	1 kg	REF 8140.1

STEADY-RESIN S+M

Monomer	clear	500 ml	REF 8136.1
Monomer	pink	500 ml	REF 8137.1

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