

GB Instructions for use Paladent® 20

Composition

Heat-curing acrylic, consisting of powder and liquid.

Main powder component:
polymethyl methacrylate.

Liquid components: methyl methacrylate,
dimethacrylate.

Paladent 20 is cadmium-free.

Areas of application

Dental resin for making prostheses. For fixed and removable prosthetic devices.

Contraindication

Direct lining with Paladent 20 is contraindicated. If the patient is allergic to one or more ingredients of Paladent 20, the product must not be used.

Advice

The product contains (meth)acrylate compounds that may cause sensitisation by skin contact. Discontinue using the product if symptoms of irritation occur. Do not use the product in case of known allergies to resins based on acrylates or methacrylates.

Preparation

A hard type of stone is sufficient for investment of the waxed-up prosthesis. After melting the wax with boiling water the plaster is isolated twice with dilute Aislar® (see Aislar® Instructions for Use). Place the dough with excess in the cuvette, slowly compress with a press at intervals and leave under pressure for about 10 minutes. If pieces are thick, add small amounts of dough. This trial pressing is performed with a PE blank so that the cuvette can be opened easily. Before finally closing the cuvette, the foil and pressing lug are then removed and very small amounts of dough are added. Cuvette temperature should be between room temperature and 45°C (113°F).

Dosing and mixing

Paladent 20 can be proportioned to suit requirements. The recommended mixing ratio for powder : liquid is 20 g : 7 ml or a multiple thereof. Introduce the required amount of liquid to the stirring vessel and, holding at an angle and simultaneously rotating and tapping the mixing beaker, rapidly sprinkle powder into the liquid until a non-wetted layer of powder remains. After 30 seconds the excess powder is shaken off. Mix the dough thoroughly and allow to swell in the covered stirring vessel for 10 minutes. Do not add more powder. The material has reached its optimum consistency when it can easily be removed from the wall of the stirring beaker and is no longer sticky. Paladent 20 can be packed at a room temperature of 23°C (73°F) for about 30 minutes. Working width depends on room temperature and mixing ratio.

Polymerisation

Paladent 20 can be polymerised by the rapid boiling method, the Kulzer hot water curing unit or the long-term water bath.

Rapid boiling method

This method assumes that the product is kept in the cuvette at 80°C (176°F) for at least 15 minutes. Place the cuvette in boiling water and boil for 20 minutes. Allow the cuvette to cool down slowly in the clamp. Place any thick pieces in boiling water as well. Then turn off the heat source and wait 20 minutes; after that boil for 20 minutes and allow to cool down slowly in

the water bath.

Kulzer hot water curing unit

Place the cuvette in at least three litres of lukewarm water to cover the cuvette completely with water. Heat the water bath to 70°C (158°F) over approx. 30 minutes. Maintain this temperature for 30 minutes, then bring the water bath to the boil over approx. 20 minutes and maintain at boiling point for at least 30 minutes. Allow to cool down slowly in the water bath.

Long-term water bath

Place the cuvettes in the water bath filled with cold water and cure at 90°C (194°F) for 10 hours. Allow the cuvettes to cool down slowly in the water bath.

Trimming and polishing

After re-occlusion the prosthesis is removed from the model and trimming with cross-toothed cutters. Before polishing with pumice the prosthesis is smoothed with sandpaper of decreasing grit size. To further reduce the risk of intolerance reaction, Heraeus Kulzer recommends always immersing prostheses (both new and repaired) in tepid water for at least 12 hours before placement.

Repair

All cold-curing PALA prosthetic resins from Heraeus Kulzer are compatible with one another and can be used for restoration/addition and repairs. The heat-curing PALA prosthetic resins from Heraeus Kulzer can also be restored/added to and repaired with all cold-curing PALA prosthetic resins.

Storage advice

Do not store above 25°C (77°F). Do not use after expiry date. Avoid direct exposure to sun. Always seal containers after use. Store out of reach of children. Visually inspect for damage before first use. Damaged products must not be used.

Danger advice for the liquid

Highly flammable. Irritates the eyes. Irritates the respiratory system. Irritates the skin. (Irritates the mucosa). Sensitivity by skin contact is possible. Keep container in a well-ventilated place. Keep away from sources of ignition – no smoking. Avoid contact with skin. If product comes into contact with the skin, thoroughly wash with soap and water immediately. Take precautionary measures against static discharges. Wear protective clothing. In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. Do not inhale vapours.

Disposal information

Regarding disposal, please observe national regulations and the safety data sheet. (Available at www.heraeus-dental.com or from your Heraeus contact.)

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