

Enigma Gingival Composite Instructions for Use

Introduction

Enigma Gingival Composite is a light curing polymer based dental composite material for laboratory use. When used with acrylic dentures Enigma PMMA Primer should first be applied to the denture.

Indications

Enigma Gingival Composite is suitable for applying to the buccal surfaces of PMMA denture base and other material in order to give a natural gingival colour appearance.

Contra Indications

Not recommended for use where allergies against methacrylates are known.

System Contents

Application

Base Layer Shades:



Pigmentation Shades:



Preparation of the buccal surface of the denture or framework

The denture should be polymerised using the preferred method. Either model to full contour and cut back after polymerisation or, when waxing-up, allow space for the Schottlander Gingival Composite.

Either roughen the surface with a coarse grain diamond bur or sandblast the area to be veneered with 50 micron or greater particle sized aluminium oxide at 2 bars pressure. Clean with oil-free compressed air. Remove all dust with a stiff brush. Do not touch the prepared surface.

Application of Enigma PMMA Primer

Apply a thin layer of Enigma PMMA Primer with a disposable brush onto the prepared surface of the freshly cured denture (<24 hours). Leave on for 2-3 minutes and then polymerize (90 seconds with Kulzer UniXS).

During polymerisation of Enigma PMMA Primer a dispersion layer is formed at the surface. This layer facilitates the bonding between the layers and should never be destroyed, contaminated nor removed. In the event that this happens, roughen and prepare the surface again as described above and apply a thin layer of Enigma PMMA Primer.

Choosing Enigma Gingival Composite Base Layer Shades

In accordance with the patient's gingiva, choose the base layer shade from one of the options shown above and, using a Schottlander modelling instrument, apply a thin layer over the whole of the buccal surface in accordance with the following guidance:

Light Caucasian pigmentation

Use Medium Pink or Pink as the base layer.

Darker Caucasian pigmentation

Use Dark Pink or Flamingo Pink according to the pigmentation.

Darker gum pigmentation

Use Red Brown in conjunction with Flamingo Pink as required.

Carry out initial polymerisation in accordance with the curing unit being used.

Choosing Enigma Gingival Composite Pigmentation Shades

The pigmentation shades are applied as required and in accordance with the following guidance:

Ruby Red

To increase base layer vascularity. Can be applied either under the base layer or over it where required.

Pale Pink and Extra Pale Pink

For areas around tooth neck and root eminences where the tissue is generally thin.

Red Brown

To reproduce melanin pigmentation.

Grey

To reproduce the free gingival margin.

Typical Technique

1. Apply Ruby Red first as a thin layer as a base, at the peripheral borders and between eminences.
2. Build up using one of the Base Layer shades such as Medium Pink.
3. Apply Pigmentation Shade Pale Pink or Extra Pale Pink to eminences and onto fraenum
4. Apply Pigmentation Shade Grey onto free gingiva around the necks of teeth and interstitially.

Note. Other techniques may also be used in accordance with personal preference.

Polymerisation

Once each stage of modelling is complete carry out Initial Polymerisation depending on the curing unit used. For instance for the Uni-XS unit from Heraeus Kulzer, initial and final polymerisation times are 3 minutes. After completing finishing the polymerisation is a further three minutes. Cure in layers if the veneer thickness exceeds 2mm (or 1mm in the case of the intense shades Ruby Red and Red Brown).

If required coat the entire composite surface with a thin layer of Composite Cover Gel prior to final polymerisation. This prevents formation of a further smear layer and facilitates trimming and finishing. This layer should not be too thick.

Finishing and Polishing

The surface should be trimmed using a fine cross cut bur then polished at 3,000-5,000 rpm using the Schottlander Laboratory Universal Polishers: fine and extra fine. Following this a hand-piece mounted goat hairbrush with polishing paste should be used and a soft woollen or calico mop for buffing. Very little pressure should be used whilst buffing. This will ensure a smooth durable and stain resistant surface.

Alternatively the whole surface can be coated with a nano-varnish and processed in accordance with the manufacturer's instructions.

Storage

If, during warm weather, the composite is kept in a refrigerator it must be removed well before use to resume its original modelling properties. Close the syringe tightly after use and shield from direct light. Turn back the plunger one turn in order to prevent seepage of material.

Store between 5-25°C.
Do not use after expiry date.

Enigma PMMA Primer is highly volatile.
Close bottle immediately after use.

Shelf Life

The maximum shelf life is printed on the label.
Do not use after the expiry date.

Health & Safety

When allergies in particular to acrylates are known to exist, avoid skin contact with Enigma PMMA Primer or composite paste. If accidental contact occurs, wash immediately with soap and water. In case of contact with eyes, rinse immediately with plenty of water and consult a physician. Keep out of the reach of children.



Refer to the current Safety Data Sheet.

Enigma PMMA Primer



Product contains methyl methacrylate.



Highly Flammable!

Warning

Irritates the eyes, respiratory system and the skin.
Can possibly cause skin sensitisation on contact.
Avoid contact with the skin. Wear protective gloves.
Store the container in a well ventilated room. In case of contact with eyes, rinse immediately with plenty of water and consult a physician. Avoid sparks. Do not smoke.
For further information please request a Safety Data Sheet.

Lot Numbers

The lot numbers are shown on the containers.

Warranty

SanaPro Dental GmbH warrants this product will be free from defects in material and manufacture. SanaPro Dental GmbH makes no other warranties including any implied warranty of merchantability or fitness for a particular purpose. User is responsible for determining the suitability of the product for user's application. If this product is defective within the warranty period, your exclusive remedy and SanaPro Dental GmbH's sole obligation shall be repair or replacement of the product.

Limitation of Liability

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This product is specifically formulated for use in dentistry.

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