

Propaque Instant Opaque

Instructions for Use

INTRODUCTION

Propaque is a ready-to-use instant opaque according to EN ISO 9693-1:2012 supplied premixed in a convenient syringe. It is of very fine particle size and easy to apply resulting in improved metal coverage, reduced shrinkage and higher opacity even when applied thinly.

INDICATIONS

For use as an opaque in the metallo-ceramic technique. It is suitable for use with most high, low and non-precious bonding alloys and with most bonding porcelains.

CONTRA-INDICATIONS

Not suitable for use with low fusing porcelains, PJC materials or with some non-precious alloys.

SHADES

Supplied in the 16 standard shades from A1-D4. Also supplied in 2 modifier shades, camel, gingiva and special shade HA0/HB0.

ALLOY PREPARATION AND OXIDATION

The Alloy should be prepared and then oxidised according to the manufacturers instructions. If no specific instructions are given for preparation, the surface should be ground in one direction using Schottlander K+M Brown or RAO Blue mounted points, depending on the type of alloy.

The surface should then be microblasted with high purity 50 micron aluminium oxide (100-120 micron for non-precious alloys), 3-6 bar pressure. Use lower pressure on softer alloys and higher pressure on harder ones.

Thoroughly clean the metal framework in boiling water, in an ultrasonic cleaner or with a steam cleaner and then oxidise according to the manufacturers instructions. After oxidation the metal framework should only be handled using clean instruments.

APPLICATION OF PROPAQUE AND PROPAQUE MODIFIERS

Two coats of Propaque of equal thickness are recommended. The first to establish a bond to the alloy surface and the second to completely mask the alloy and oxide.

Because Propaque possesses excellent coverage and minimal shrinkage, application may be made with the coping(s) or framework off the die(s).

Moisten the brush in clean water and remove any excess from the bristles. Dispense the chosen shade of Propaque into the appropriate well and apply with even strokes in one direction. Avoid overbrushing and apply as thinly as possible to just mask the alloy.

Propaque should be used as supplied. **DO NOT** thin with water.

Excess Propaque can be stored for several weeks in the covered wells. Do not use the material once it has dried out.

Fire as per the instructions below for 1st Propaque firing. After firing the surface should have a slight sheen.

Allow the coping to cool and then apply a second thin coat. If required the shade may be modified at this stage using the Propaque modifiers. These may be used on their own or mixed with any Propaque shade or modifier.

Fire as per the instructions below for 2nd Propaque firing. After firing the surface should appear textured with a slight sheen.

FIRING INSTRUCTIONS

	Low temp °C	Minimum drying time	Temp rise °C/min	Vacuum	High temp °C	Hold time without vacuum
1st Propaque firing	550	8 min	80	Yes	980	1 min
2nd Propaque firing	550	8 min	80	Yes	960	1 min

Important. Dry for minimum time shown above. Temperatures are given for guidance and for precious and semi-precious alloys. Actual temperatures will depend upon the type of furnace and alloy used. The furnaces should be calibrated regularly and the firing temperatures adjusted according to results. For non-precious alloys increase the above temperatures by 30°C. For high gold alloys increase temperatures by 20°C and hold time to 2 minutes.

APPLICATION OF DENTINES AND ENAMELS

After completion of the Propaque firings apply dentine and enamel and fire in accordance with the manufacturers instructions.

PHYSICAL PROPERTIES

	Glass transition temperature °C	Coefficient of linear thermal expansion 25°C - 500°C 10 ⁻⁶ K ⁻¹	
Firings	2 and 4	2	4
	620	13.8	13.8

STORAGE

Store at room temperature (15°C-23°C). Avoid prolonged exposure to sunlight. Immediately after each usage replace cap on syringe. When so stored shelf life is a minimum two years from date of manufacture.

HEALTH AND SAFETY

Keep away from eyes since the granular nature of the paste may cause irritation.

For further information request Safety Data Sheet.

LOT NUMBERS

The lot number is shown on all syringes.

This product is specifically formulated for use in dentistry.

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