

Instructions for Use

Manufactured by:

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1. Product Description

CGI Universal Glaze and Universal Fluorescent Glaze for airbrush application are intended to use for glazing dental restorations.

2. Indications for use

The materials are intended to be used for glazing zirconia and lithium silicate glass as well as PFM and POM restorations.

3. Contraindications

Do not use this material for purposes other than its intended use or in a manner different from the instructions stated in this procedure. Do not blend with any other non-recommended product.

4. Technical Data

Table 1	
Coefficient of Thermal Expansion	10.0+/-0.5 X 10 ⁻⁶ /°C
Transition temperature	530°C +/- 20°C

5. Equipment

The spray kit contains the following items:

Paasche gun

Mini compressor

Glass jar

Isopropyl alcohol, 120ml

Food coloring 0.5 oz

Magnetic stirrer with magnetic rod

Scale

2kg of Glaze powder

6. Glaze procedure

6.1 Weigh the powder

Turn on the scale and wait few seconds for it to stabilize. Use a clean container for weighing the glaze powder and press the tare button (Z/T). Add 14g of powder.



6.2 Weigh liquid

Take the glass jar with the magnetic stirrer rod inside, remove the lid and weigh. Press the tare button (Z/T) and add 20g of 99.0% Isopropyl alcohol (IPA). Add 1 drop of red food coloring.



6.3 Blend the components.

Add the glaze powder, close the lid, and start the magnetic stirrer at low speed. Allow a few minutes to produce a good mixture of the components. The powder is insoluble in the liquid and is stable for a few

minutes. If the system is left without agitation the powder will settle at the bottom the jar. Keep the stirrer on during any pause in the glaze procedure to assure a good suspension of the liquid and powder.



6.4 Install the compressor

Install the compressor and connect the Paasche gun. Turn the compressor on and allow the air to flow through the gun by pressing the tip in intervals. Use the small gauge to set a pressure by turning the knob clockwise until you reach 30-40 psi while keeping air flowing through the gun.



6.5 Connect the jar

Take the glass jar and attach it into the sleeve of the Paasche gun and turn on the compressor. Your system is now ready for use. Please read the instructions of the Paasche gun carefully.



7. Application

Holding the airbrush about 6 inches from the restoration, spray the glaze in a sweeping motion with short bursts of glaze. You should see immediate coverage because of the pink color of the glaze mixture. Keep the bottle of glaze and liquid mixed throughout the operation. When finished, remove the top and clean the nozzle with Isopropyl Alcohol and allow to dry. Use one of the small plastic containers with alcohol to clean the gun after finishing.

The spray system requires some practice to adjust the way to attain the perfect glaze coverage. Once you reach the perfect configuration you will see your glaze procedure totally optimized.

8. Firing chart

Dry out	1 min
Insertion	400°C - 752°F
Heat rate	40°C/min - 72°F/min
Firing Temperature	750°C-850°C 1382°F-1562°F
Hold time	1 min
vacuum	None*

*Vacuum is optional and can be used if the material to be glazed requires it.

Note: For Pressable and PFM Ceramics the best firing is 750°C to 800°C. For Zirconia restorations best firing is 800°C to 850°C.

Please be sure that the furnace is properly calibrated. The above temperatures are recommended and can vary with individual furnaces. Adjust the temperature if necessary.

9. Storage

Store the containers in a dry place and completely closed.

10. Warning

Do not inhale powder. Do not get dust, paste or liquid in contact with eyes or skin. Protective equipment such as gloves, goggles, mask and lab coats are recommended when using these materials.