



# CrystalCeram®3D Gum Powders / CGI Gum Stain Pastes

## Instructions for use

### Manufactured by:

Ceragroup Industries  
5600 NW 12<sup>TH</sup> Ave #304  
Fort Lauderdale, FL 33309  
1-954-670-0208  
[info@ceragroup.net](mailto:info@ceragroup.net)



[www.cgiporcelain.com](http://www.cgiporcelain.com)

### 1. Product Description

CrystalCeram® 3D Gum powder is intended to use for applying on Zirconia materials to restore the Gum shape and shade or characterizing of the gingiva tissue. CGI Gum stains are intended to use for applying over the 3D Gum ceramic or directly over the zirconia restoration.

### 2. Indications for use

The material is intended to use on all zirconia restorations to reproduce the gum tissue.

### 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 <sup>-6</sup> /°C
Transition temperature	530°C +/- 20°C

### 5. Ceramic Application

#### 5.1 Powder and Liquid

Use CrystalCeram® 3D Gum powder with CGI Modeling Liquid. Add a few drops of liquid to form the desired consistency. Wet a ceramic build-up brush with the Modeling Liquid and dry off excess with a tissue. Take the brush and collect the proper amount of gum ceramic and place where desired on the restoration. Place the restoration at furnace entrance and dry sufficiently prior to firing the restoration using the program provided in Table 2. You can add a

second characterization and fire using the same firing temperature of Table 2 if it is needed.



#### 5.2 Firing chart Gum Ceramic

Table 2	
Dry out	5 min
Insertion	350°C - 662°F
Heat rate	40°C/min - 72°F/min
Firing Temperature	810°C - 1490°F
2 <sup>nd</sup> Firing	Reduce temperature.
Hold time	1 min
vacuum	Yes

\*Vacuum is required on ceramic based applications.

### 6. Gum Stain Application.

#### 6.1 GUM Stain Paste Application and Glazing.

The gum stain is to enhance the gum ceramic in certain areas to give the restoration a more characterized appearance. It is always applied after the gum ceramic is finalized or it can be applied directly over the zirconia restoration. The glaze is applied after for a high gloss finished product.



## 6.2 Gum Stain Colors



The Gum Stain kit contains 8 colors that allow a complete gum characterization.

## 6.3 Firing chart Gum Stains

Dry out	3-5 min
Insertion	300°C - 572°F
Heat rate	40°C/min - 72°F/min
Firing Temperature	790°C 1454°F
Hold time	1 min
vacuum	None*

. **Note:** Be sure that the furnace is properly calibrated. The above temperatures are recommended and can vary with individual furnaces. Adjust the temperature if necessary.

## 7. Storage.

Store the containers in a dry place and completely closed at room temperature.

## 8. 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. Refer to our SDS for more important information.

## 9. Associated Products by CGI

3D Gum powder Light and Dark

Gum Kit – 8 Stain Pastes for characterizing and enhancing the tissue.

CGI Paste Stains in 15 shades

CGI Universal Glaze: Available in Paste and Powder in 5gm jars

For more information visit [www.cgiporcelain.com](http://www.cgiporcelain.com)

And see the CrystalCeram® Manual of instructions.

