

# Product information

08/01/2018

**vitrea**  
160 *Glass painting*

## Properties:

**QUALITY:** 36 watercolours for glass, available in glossy, frosted or iridescent transparency, remarkably luminous. Excellent lightfastness.

The colours are ready to use and mixed together.

**COLOUR DRYING, MEDIA AND MARKERS FOR DECORATIVE USE:**

72 hours with light wash, without soaking.

**COOKING OF ALL THE COLOURS, ACCESSORIES AND MARKERS OF THE RANGE, IN ORDER TO BE DISHWASHER-SAFE:**

40 minutes at 160° C (stabilised temperature) in domestic oven, after a minimum of 24 hours drying.

**SURFACES:**

Glass, crystal ... Media such as Pyrex ®, Arcopal ® or equivalents must not be used.

**DILUTION:** Vitrea 160 thinner.

**OPACITY:** Transparent colours.

**FINISH:** Glossy, frosted or iridescent.

**CARING (decorated surfaces):** After cooking, the colours are dishwasher-safe, resistant to alcohol, solvents and common detergents. For better strength/durability, machine wash cycle ECO, and ideally, position in the top basket.

**PAINT BRUSHES:** Cobra deco or Iris Pébéo brushes

**CLEANING PAINTBRUSHES:** with soap and water.

**NUMBER OF COLOURS:** 20 glossy, transparent colours, 10 frosted colours, 6 iridescent colours.

**PACKAGING:**

- 45ml bottle – 32 colours – Protect from freezing.
- Glossy markers with normal tip, 1.2mm - 9 colours.
- Natural felt tip markers, 1.2mm - 9 colours.
- Relief colours in nozzle tube, 20ml - 10 colours.
- Relief colours in tube in blister pack --10 colours.

**CAUTION FOR MARKERS:** Air travel can cause an excess of ink on the tip and cap. Carefully open the cap and, if necessary, clean the tip and cap before use.

## Applications :

Vitreia 160 watercolours combine professional quality with ease of use. After baking at 160° C in a domestic oven, the colours become deeper in hue. The glass then appears to have been directly dyed in the mass. On glass or crystal, the transparency and effects of Vitrea 160 colours take best advantage of the light. Vitrea 160 can, nevertheless, be applied to other media that can be heated at a temperature of 160° C. Whether they be liquids in bottles, pastes in tubes or markers, the Vitrea 160 colours present the same characteristics and properties. Used together, they allow you to freely vary the effects and techniques.

Their transparent glossy, frosted and iridescent finishes invite you to create multiple plays on light and contrasts.

To make the colours more fluid, use the Vitrea 160 Thinner.

Shiny and Frosted Media serve to brighten the colours without depleting them, the Iridescent Medium gives them pearlescent reflections.

The Vitrea 160 reliefs, in nozzle tubes, make it possible to work in relief and to contain the colours.

The Vitrea 160 markers are recommended for upstrokes, lines and writing. Shake before using.

Then, press the tip several times to prime. Air dry 72 hours for decorative use, with light wash and without soaking. Leave to air dry for 24 hours, then bake for 40 minutes at 160° C in order to be dishwasher-safe (following recommendations noted on the label). Store flat. Protect from freezing.

Before applying Vitrea 160, simply degreasing with alcohol or soapy water suffices. Place the decorated object in a cold oven. Once the temperature reaches 160° C, it cook for 40 minutes. At the end of baking, open the oven and leave the object to cool down inside to prevent any thermal shock. After cooking, decors are dishwasher-safe (following recommendations), and resistant to solvents and common detergents. Only surfaces that are not intended to come into contact with food should be decorated. There is no danger in drinking in a glass decorated with Vitrea 160 if the application stops more or less 1 cm from the edge (mustard jar principle).

Nevertheless, migration tests carried out by an accredited laboratory have shown that accidental contact of decorated areas with food does not represent a health hazard.

**Recommendations:** This information is presented for illustrative purposes. It is advisable to always carry out preliminary tests on the selected surface before starting a piece.

For more information on the safety and handling conditions of products, you can refer to the safety data sheet available on the website:

<http://en.pebeo.com/Pebeo/Safety-Data-Sheet>

## Frequently Asked Questions

### **Can the glass withstand a temperature of 160° C?**

Place the piece in a cold oven, when the oven temperature reaches 160 °C (325 °F), cook it for 40 minutes, then allow the piece to cool in the oven. This limits any thermal shocks that could cause the glass to break.

### **Can the product be dried for less than 24 hours before cooking?**

It is important to let the paint dry for 24 hours before cooking. If the paint film is not totally dry, the water contained in the film will boil on cooking and create defects such as bubbles or blisters on the surface.

**Can V 160 colours be used with an airbrush?**

Vitreia 160 paints can be used with an airbrush. To do so, thin the colours with Vitrea 160 thinner (ref 113050) until you achieve the desired consistency. Do not use water; it will reduce the resistance of the colours to washing.

**I mixed P150 and V160 on the same piece; at what temperature should I bake it?**

If you have mixed the 2 products P150 and V160 on the same piece, fire it at the highest temperature and the longest time (i.e. 160 °C for 40 min), for optimal properties.

**What is the consumption of a 20 ml tube of Relief?**

A line of 15 meters.

**What is the consumption of a V160 marker?**

150 metre line

**Can the decorated objects come into contact with food?**

No, only surfaces not intended to come into contact with food should be decorated.

**How does one prepare the surface to be painted?**

Very simply, degrease the surface to be decorated using alcohol or soapy water.

**When applying, frosted colours have a shiny appearance; is this normal?**

Yes, these colours exhibit their frosted appearance once dry. Moreover, always stir the bottled colours and shake well before using the markers.

**How does one correct a mistake?**

Before baking, the Vitrea 160 colours can be erased using water or alcohol: use a cotton swab to correct a detail or soak your object for a few minutes to erase everything.

**Can successive layers be applied?**

Yes, there are two ways to proceed. Apply the second layer directly, without waiting for the first to dry. You can also apply the first layer, bake it (10 min at 160° C), then apply the second.

**What surfaces can be painted with Vitrea 160?**

This product is particularly well-suited to painting on glass or crystal. You will, nevertheless, obtain interesting effects with other types of surfaces that can be heated at a temperature of 160° C.

**Upon first use, how does one bring the colour down to the tip of the marker?**

Shake briskly, then count 30 to 60 seconds while continually pressing the tip to prime it.

**How does one lighten a colour?**

By mixing gloss or matte media with the colours you wish to lighten.

**How does one render a colour more fluid?**

Make the Vitrea 160 colours more fluid by diluting with the Vitrea 160 thinner until the desired consistency is reached. Do not use water, as this can diminish the resistance of the colours.

**Can the media be used alone?**

Yes. The glossy medium, which is almost invisible when cooked, is ideal for creating inclusions. The matte medium allows for remarkably similar effects to etched glass.

**Why did the colours bubble when cooked?**

You probably did not leave the product long enough to dry before baking.

**The colours did not withstand the effects of the dishwasher. Why?**

Several possible reasons: the surface was poorly degreased before application, the colours were diluted with water or the temperature and cooking time instructions were not followed.

**Should the object immediately be placed in the oven once it is well heated?**

No, it is even advisable to insert the object in the oven when it is still cold, to avoid thermal shock. Conversely, once finished baking, allow the oven to cool before removing the object.