
Vitratek Porcelain Enamel

Frequently Asked Questions

Vitratek Porcelain Enamel FAQ

What is Vitratek Porcelain Enamel?

Porcelain Enamel is a mixture of glass and inorganic pigments fused to a steel substrate at temperatures exceeding 1400° Fahrenheit. This extreme temperature creates a molecular bond between the glass and steel, forming a permanent bond. Porcelain Enamel is not affected by UV rays or extreme weather conditions. It is also impervious to all forms of graffiti, cannot be harmed by chemicals or solvents, and is the most scratch resistant surface available.

What is the maximum size you can do in Porcelain Enamel?

The maximum size for a single Porcelain Enamel panel including graphics is 48" x 84". Multiple panels can be tiled to create very large continuous images.

How does Porcelain Enamel compare to other sign materials?

Porcelain Enamel is the "Cadillac" of sign materials and is unrivaled in beauty and durability. The quality, color and resolution of the graphics is better than most signage products since the graphics are fused directly on the surface. Porcelain Enamel signage will outlast all other sign products and is virtually impervious to the elements. Its vitreous (nonporous) surface also resists all forms of graffiti and makes it extremely easy to clean and maintain.

How much does Porcelain Enamel cost?

There are many factors that can affect the price of Porcelain Enamel such as size, quantity, complexity of graphics, installation options, and fabrication details. These variables make it very difficult to offer square foot pricing and as such, we prefer you call us to discuss the details of your project so that we may provide you with a custom quote.

What thickness options are available in Porcelain Enamel?

Porcelain Enamel can be fabricated as either flat or pan-shaped panels from 14 - 18 gauge sheet metal. Flat panels can be cut to a particular shape using computerized laser cutting equipment. It is recommended that this product be backed by another material (aluminum, MDO plywood, Sintra etc.) for stiffening purposes to increase its impact resistance. It is best to discuss with us how you intend to install this product so that we may recommend the appropriate fabrication techniques.

Can you create unique shapes with Porcelain Enamel?

Yes. In fact, Porcelain Enamel is possibly the best material available for applying vinyls. For changeable graphics, the colorfast nature of Porcelain Enamel is perfect for repeatedly applying and removing vinyls as there is no ghosting or fading. The hard, glassy surface will also resist scratching if razor blades are required to remove the vinyl.

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Are Graphics full-bleed? No. There is typically a 1/8" set-back for Porcelain Enamel graphic panels depending on the graphics. However, this set-back can be air-brushed with porcelain inks in certain applications where full-bleed graphics are required.

What happens if Porcelain Enamel is vandalized? Porcelain Enamel has an extremely hard surface and resists scratching very well. If installed properly with the appropriate backing material, this product is also quite impact-resistant. If however, Porcelain Enamel is chipped and the steel substrate is exposed, it can begin to form rust at that spot. This damage will not expand in most situations. A simple remedy is to clean the area well and apply an epoxy based touch-up paint, or call KVO for touch-up instructions. As a worst-case scenario, if the panel is severely damaged and needs to be replaced, the replacement panel can usually be produced for approximately 1/2 the original cost, as long as the original film is still available and in good condition.

What is the turnaround time for Porcelain Enamel? The standard turnaround time for Porcelain Enamel is 10 - 12 weeks from receipt of your files and Purchase Order. This time includes content proofing and color proofing which is highly recommended. In certain situations, we can offer quicker turnarounds.

What is the warranty for Porcelain Enamel? We guarantee all Porcelain Enamel work against fading due to UV exposure for a period of twenty five (25) years from the date of delivery. We further guarantee all work to be free from defects in materials or workmanship, chipping, delaminating, rusting or deteriorating in any way, with the exception of vandalism, mishandling or improper installation, for a period of five (5) years from the date of delivery.

Please Note: You must have a written warranty from KVO Industries for your specific project before any claims can be honored.

For more information: For more information about Vitratek Porcelain Enamel or any of our other products or services please contact KVO Industries at:

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