



Interpane

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INTERPANE

GLASS FOR LIFE

ipadecor

Ceramic digital printing and ceramic screen printing

We help turn your bright ideas into reality



ipadecor glass design - for visionaries

ipadecor from Interpane - in ceramic digital printing and ceramic screen printing technologies - opens up practically unlimited creative possibilities in modern glass design. Virtually any motif can be incorporated in glass - permanently and decoratively. This applies equally well to geometric structures, artistic fantasies, and realistic photographic images.

Designs can be implemented in previously unattainable dimensions, with incomparable resolution and focal precision, and with unique color intensity. The end product, refined in this way, not only meets the most challenging aesthetic demands but also satisfies on a sustainable basis all functional and material requirements.

ipadecor - ceramic digital printing

For both indoors and outdoors

ipadecor - produced in ceramic digital printing technology - is ideally suited for implementing glass designs quickly, easily, and economically - both for interiors and exteriors. Glass areas can be enhanced with high-level resolution and brilliant color intensity - according exactly to customer specifications and taste. Ceramic digital printing - unlike conventional screen printing - can print a number of different colors simultaneously.

Ultra-modern production

Interpane, at its factory in Hildesheim, has one of the most modern ceramic digital printing systems in all Germany. Here we print glass substrates in sizes up to maximum 2800 x 3700 mm and in various thicknesses between 2 and 19 mm. Resolution is set by default to 360 dpi but this can be increased up to maximum 720 dpi.

The motif of your choice

Since ipadecor is produced using state-of-the-art ceramic digital printing technology, absolutely any motif can be edited and sent to the printing machine. Special print heads then transfer the ceramic ink onto the glass with pinpoint accuracy. Finally the chosen motif is fused permanently with the glass surface.

Really impressive large-scale formats

The ceramic digital printing process used for ipadecor permits analysis and breakdown of large-scale images into individual frames. In this way the façades of entire buildings can be glazed - economically and according exactly to the customer's wishes, e.g. with a company logo, images, or ornamental designs. Colors currently available are black, white, green, blue, yellow, red, orange, and various mixtures of these.





ipadecor - ceramic screen printing

Design - the unlimited possibilities

The new possibilities that ipadecor ceramic screen printing opens up for the design and enhancement of glass areas are virtually unlimited. This method uses high-grade machinery to print colors through fine-mesh fabric directly onto the glass surface. Areas of color and pictorial motifs can be printed in outstanding quality and with excellent definition.

An impressive variety of colors

ipadecor ceramic screen printing is available in a wide range of standard designs. ipadecor can on request also be supplied with metallic and etched inks and with special color inks - plus numerous combinations of our standard colors and motifs - and all in perfect photographic quality. Special "Side One colors", for example, lend the exposed outside surface (POS1) an extremely high resistance to the adverse effects of weathering and UV radiation and also prevent silvering.



This applies to both these procedures

Areas of use

Ceramic printing techniques are suitable not only for the modern glass exteriors designed for large, prestigious buildings, e.g. façades, all-glass structures, insulating glass, and decorative breastwork, but also for interiors, e.g. shelving, bathroom furniture, shower screens and paneling, inlaid floors, kitchen products, shop interiors, partition wall systems, and doors, etc.

Baked in - forever

The printed elements are baked into the glass at temperatures above 600 °C; this process converts the glass into tempered safety glass and fixes the colors once and for all. From this moment on the colors will not fade and remain resistant to the effects of solvents and abrasion. The prints remain scratch-proof (with a hardness of 4 to 6 Mohs) and resistant to temperature fluctuation (up to 200 °C).

Characteristics common to both digital printing and screen printing

- Use of digital pictures (PDF, EPS, PSD, AI, CDR, TIF, JPG, DWG, DXF, BMP file formats)
- Editing and process control via internal graphics designer
- Use of ceramic inks in multi-color prints
- Colors permanently baked into the glass after prestressing phase
- Suitable for outdoor use
- Printing of glass thicknesses from 2 up to 19 mm
- Use in variable opacities
- Tempering either to heat-strengthened glass or to thermally toughened safety glass
- Resistant to UV light, scratch-proof, abrasion-proof

Options:

- Subsequent coating possible (protection against the sun / thermal insulation)
- Can be further enhanced as insulating glass

Differences between digital printing and screen printing

- Digital printing, maximum size 2800 x 3700 mm
- Screen printing, maximum size 1500 x 3300 mm
- Screen printing, use of colored etching inks
- Digital printing, production of single items possible
- Screen printing, fine masking for sand blasting techniques

