



THE GLASS YOU WANT
WATER-BASED PAINTS FOR FLAT GLASS





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A WIDE RANGE. UNLIMITED SOLUTIONS.



The considerable experience gained by ICA Group's Research & Development laboratories in the formulation of water-based paints has led to the creation of a specific range for both flat and container glass painting: **VIDREA GLASS PAINTS**.

ICA Group's **glass range for flat glass** includes **transparent, lacquered and metallic monocomponent and bicomponent organic water-based paints** that allow to achieve high-quality aesthetic results with an unrivaled array of effects and colors.

These products offer excellent adhesion and chemical-physical resistance, and are non-flammable, water-dilutable and easy to prepare and use. Moreover, they comply with the regulations on the limitations of solvent emissions into the atmosphere and do not contain dangerous, carcinogenic or toxic substances.

ICA Group's range of high-quality coatings, which over the years has been geared more and more towards a reduction in environmental impact, has enabled the company to be recognized as one of the **most technologically advanced players in the market**, both in Italy and internationally.

AT THE SERVICE OF DESIGN.



The **VIDREA** water-based lacquered range for flat glass is unique of its kind with **unlimited colors** and **innovative design effects**. It allows to choose from three different sample books (**ICA**, **RAL** and **NCS**) that collectively encompass more than 2,300 colors, all of which can be faithfully reproduced thanks to **ICA COLOR** tintometric system. This system allows ICA Group's sales infrastructure to provide a service that is unbeatable not only in terms of its short lead times but also in terms of the consistent quality of the paints, the perfect reliability of the colors and their replicability over time.

ICA Group also produces **sample colors** at the client's request and conducts color checks using a spectrophotometer, a tool which is able to identify color differences due to different glass types and thickness.

The array of effects that can be achieved with these paints is very vast and conscious of design trends, which is why it is a true revolution in the design sector.

Here are a few examples: **hiding lacquered paint, metallic, mirror-effect metallic, steel-effect metallic, Liquid Metal, drop effect, mother of pearl, padded, travertine, ice (Liquid ice), soft touch.**





EVERYTHING IS EASIER WITH VIDREA.

Simple application and
versatile glass processing.

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VIDREA organic water-based paints can be applied **by spray** (manually, with an automatic sprayer or electrostatically), **by curtain-coater** or **by roller**.

Paints can be dried at room temperature or in **ovens at up to 160°C**. After drying, the painted glass can be worked on directly, undergoing operations such as cutting, grinding, sealing and bonding. The **VIDREA** paints can be used for laminated glass processing (for more information see the product data sheets).



HIGHLIGHTS.

100% UV PAINTS

100% transparent or pigmented UV acrylic paints that allow to accelerate and optimize production cycles thanks to photo-cross-linking induced by exposure to specific lamps.

STEEL EFFECT

VMA3000 is a bicomponent water-based spray-on paint that reproduces a **steel effect** on glass. It can also be applied to plastic materials, objets d'art and interior furnishings in general, imbuing the surface with an excellent shine. It can be pigmented with the stains of the CNA series to achieve different shades (gold color, titanium color, etc.).

WATER-BASED SAFETY PAINT

GPSAFE is a transparent or colored water-based product that can be applied by spraying or curtain-coating and that enables glass and mirrors to be made safe. It forms a thin film that, if the glass or mirror cracks, holds all of the shards in place, thereby preventing dangerous cuts or other accidents. This product, which has been subject to pendulum impact testing as per the EN 12600:2004 standard, is categorized in class 2(B)2. As such, it falls within the safety parameters for single flat panes of glass for use in construction.

MIRROR EFFECT

GPMIRROR is a metallic monocomponent spray-on paint that allows to recreate a **mirror effect** on the glass surface. The best aesthetic performance of this effect is achieved on molded products.

VIDREA BIO PAINTS

The new **BIO-based** range revolutionizes the world of chemistry. These water-based paints are made with renewable materials deriving from innovative refining processes aimed at converting "waste" vegetable matter that is not fit for human consumption, and which are oriented towards a circular economy. Featuring excellent technical properties, they have been developed in full respect of the environment and the health and safety of end users. These revolutionary glass paints have similar properties to their fossil-derived equivalents from ICA, in terms of hardness, chemical-resistance, light-resistance and processability.

Watch the videos about the VIDREA range





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ICE EFFECT

The **LIQUIDICE** monocomponent paint creates an **aesthetic effect similar to ice crystals**. It allows to achieve various pearl-like or metallic colorations that bring out the texture created by the product, giving the painted surface an unusual 3D effect.



EXCELLENT PERFORMANCE.

ICA Group's **VIDREA** water-based paints for **flat glass** pass all of the most important adhesion and chemical/physical resistance tests.

CHEMICAL-PHYSICAL TESTS

| | |
|---------------------------------------|-----------------------------------------------------------|
| HIGH HUMIDITY | UNI EN 16477-1 |
| HIGH TEMPERATURE | UNI EN 16477-1 |
| RADIATION | UNI EN 16474 (tab. 4/cycle5) |
| IMPACT RESISTANCE (Pendulum test)* | UNI EN 12600:2004 |
| ADHESION | UNI EN ISO 2409 |
| WET ADHESION | Internal method (UNI EN ISO ISO 2409 + water) |
| THERMAL SHOCK RESISTANCE | UNI EN ISO 9429 |
| SCRATCH RESISTANCE | Internal method (Erichsen Pen test) UNI EN ISO 1518 |
| LIGHT RESISTANCE | UNI EN ISO 15187 |

* The test is specific for GPSAFE products.





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