

Create custom products

Concrete, fiber cement, manufactured stone veneer, plywood,...



Concrete
Add a design to your
precast concrete without
adversely affecting its

mechanical strength.



Fiber cement boards
Add colour and design to
your board without
changing its intended
end use.



Manufactured stone Convert gypsum and concrete panels into customized ready-to-use products.

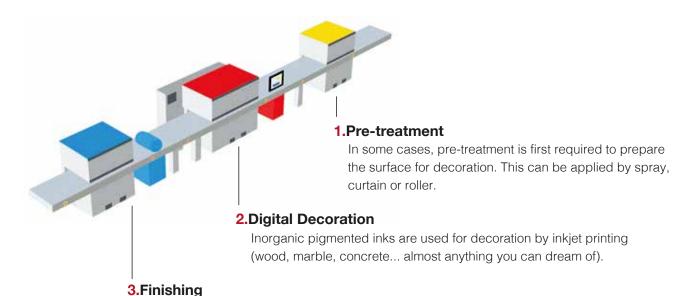


Plywood and MDFOur decorative solutions add value, through colour and design, to many other construction materials.

How to decorate your building materials

The simplest way: digital inorganic printing

The decoration process is simple and cost effective, providing long-lasting decoration. Decoration by decorative solutions involves: primers, inorganic inks and coatings. The formulation and application of each layer has been optimized to assure integrity of the top layer and of the entire decoration.



In the finishing phase, our coatings provide the desired protection for the targeted aesthetic qualities and mechanical properties. The coatings can be applied by spray, curtain or roller depending on the targeted properties and substrate characteristics.

What you need

An expert partner: chemicals, design service and technical assistance

Itaca provides the necessary chemical products for digital decoration

Inorganic pigments and colours

Itaca's synthetic inorganic pigments have been manufactured with own proprietary technology since 1989. These inalterable inorganic colours are used as key raw materials for the inks and are indispensable for the final decoration.





Inorganic inks Itaca's innovative inks provide a wide colour gamut. Their inorganic nature assures durability and UV

Primers

Primers play a key role in appropriate bonding of the subsequent layers, optimizing the amount of ink required and providing brightness.





Coatings

resistance.

The finishing phase consists of applying the desired protection with our coatings for the targeted aesthetic qualities and technical performance.

Tests performed: Itaca always offers top quality. To obtain the best solutions, the following tests are conducted: Adhesion, Chemical stain resistance, Abrasion resistance, Skid resistance, Scratch resistance, Thermal shock resitance and Weathering resistance.

Design service



Design department features:

- Monitoring the latest global trends for customized markets
- Agile digital inkjet design development for bespoke designs and products
- Working with the latest colour management software
- Talented designers empathizing with customer values
- Esmalglass-Itaca group offers a huge library of designs for clients

We provide specific solutions that guarantee our customers' commercial success.

From the outset, Esmalglass-Itaca Group has believed in the competitive edge that design could contribute to the sector. This advantage is based on thorough knowledge of the needs of the different markets which our customers supply, not only concerning trends in colour, texture and form but also in the change of consumer and living environment habits. This allows Itaca to provide special, specific solutions that guarantee our customers' commercial success. Esmalglass-Itaca design stands out for its total quality, speed and agility.



Technical assistance

Customer-oriented solutions result from the close customer collaboration.

We are a business unit with a clear aim: our customers' satisfaction. We have the right product for every market segment and highly engaged and motivated personnel to satisfy our customers wishes. We anticipate the future, providing global solutions for our customers, adapting to their needs and always meeting the strict requirements of modern industry. Together with the products, Itaca provides comprehensive services for the start-up of the decoration project.

We accompany our clients from the very beginning, developing the product strategy, right up to the end.

We are our client's partner in developing and implementing decorative solutions based on digital printing.

Itaca can also provide training for local workers of the manufacturing and design departments.



Why this decorating system

This technology affords three important advantages

Tested This industrial printing technology has been tested even in the harshest industrial environments.

technology Fact 1: Over 7,000 machines are running worldwide.

Fact 2: The system is currently being used in production by major players in Europe, Southeast Asia, South America and North America.

colours

Inorganic Inorganic colours have two main advantages: The first advantage is UV colourfastness; unlike organic colours, this enables them to be used for both interior and exterior coverings. The second advantage is that due to their cristalline nature, they are not affected by high pH present in cementitious materials.

> Fact 1: Aging tests reveal that our inorganic pigments will remain stable in cement-based products.

Fact 2: We have tested that our inorganic pigments are compatible with but not reactive to cement-based products, resulting in long-lasting solutions.

Cost-effective Economically competitive printing is involved.

Fact: both the machines and the consumables are cheaper than other decoration techniques. The investment in a decorating line with inorganic pigments is 50% cheaper than that in a line using organic pigments.













Concrete decorated by digital printing

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