



digitalsolutions
by **esmalglass**·**itaca** grupo

your digital partner



Do you want to profit from the maximum advantages in the digital world?
Come in the Esmalglass-Itaca world, your digital partner.





In Esmalglass-Itaca, we have a clear objective: your company will enjoy all the advantages of the digital world in the most efficient and profitable way. That is why we propose to be your digital partner, a partner with a strong basis and with a innovative and competitive vocation.

For you to start getting the maximum performance, we offer you the perfect solution for the systems of digital decoration:

- the **HCR inks family** (High Cromatic Range): with a wider and more intense range of colours;
- the **HCP glazes** (High Cromatic Performance): enhance the performance of chromatic inks;
- and our new **digital glazes DPG** (Digital Printing Glazes) with new decorative possibilities.

It is the real (r)evolution of the digital technology.

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INKJET INKS
ESMALGLASS-ITACA **HCR**
(HIGH CHROMATIC RANGE)

GLAZES
ESMALGLASS-ITACA **HCP**
(HIGH CHROMATIC PERFORMANCE)

DIGITAL GLAZES
ESMALGLASS-ITACA **DPG**
(DIGITAL PRINTING GLAZE)

intensity chromatic range printing quality uniformity stability





INKJET INKS ESMALGLASS-ITACA **HCR** (HIGH CHROMATIC RANGE)

Esmalglass-Itaca increases the performance of the pigmented inks with the new Esmalglass-Itaca HCR inkjet inks, which have 3 new colours, Yellow, Blue and Beige, much more intense, increasing the color range, the printing quality and getting more uniform tones and gradations.

The complete set consists of 6 colours: yellow, beige, pink, blue, brown and black, providing a complete color range that perfectly reproduces any material type. The pink ink, with a high intensity, pigmented and without gold, compared to the golden magenta inks, significantly reduces the production costs without affecting the chromatic range.

This set of inks brings a new concerning to the ceramics digital printing, both in chromatic range as in printing quality, which represents a major advance in pigmented inks.

The HCR Esmalglass-Itaca inks offer many advantages providing a greater color intensity, excellent chromatic reproduction, smoothness compared to other technologies and great physical and chemical stability, necessary for industrial processes of single-pass injection.

The color intensity of our inks results in a greater brightness and darkness, a part of a reduction in inks consumption, helping to produce the same designs with fewer inks.

The inks allow to print in either Binary or gray scale mode. It is possible to obtain very dark tones or bright colours with homogeneous digital mixtures with a imperceptible pixelated.

The HCR Esmalglass-Itaca inkjet inks have been validated and tested by all manufacturers of machinery and injection heads present in the ceramic industry.



CIK-NE6101
CIK-NE6125
CIK-NE6112

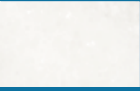
CIK-MA5103
CIK-MA5125
CIK-MA5112

CIK-AZ9101

CIK-AZ4101
CIK-AZ4125
CIK-AZ4112

CIK-FO4101
CIK-FO4126
CIK-FO4112

CIK-AM5102
CIK-AM5126
CIK-AM5114





Our colors

In the digital decoration, we can find different color settings installed in the printing devices.

For instance:

- 3-color printing:
Blue-Brown-Yellow,
Blue-Brown-Beige, etc.
- 4-color printing:
Blue-Pink-Yellow-Black,
Blue-Brown-Yellow-Black, etc.
- 5-color printing:
Blue-Pink-Yellow-Brown-Black, etc.

The choice of the color scheme is very important because it will define the color space that can be represented, and therefore what kind of ceramic developments we can manufacture.

Our exclusive colors will always offer the maximum color range on any of the settings used, from 3-color printing to 6-color printing, and we will help you with choosing the right colours.

Yellow HCR

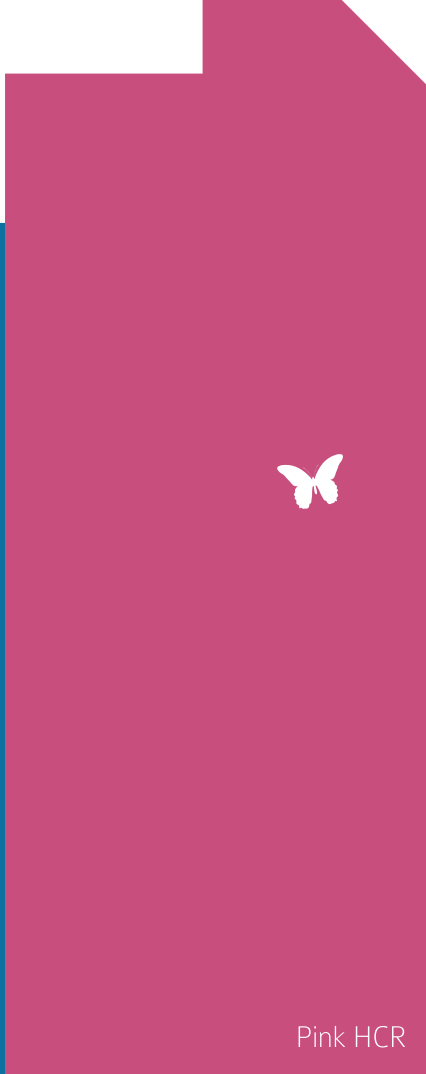


Black HCR





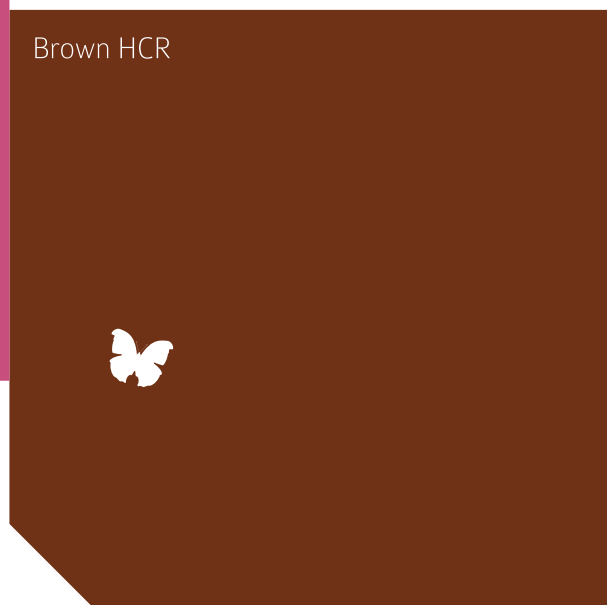
Blue HCR



Pink HCR



Beige HCR



Brown HCR



GLAZES ESMALGLASS-ITACA **HCP** (HIGH CHROMATIC PERFORMANCE)

Together with this generation of inks, a complete family of glazes has been developed that enhance the color performance of digital inks, the HCP (High Chromatic Performance) Esmalglass-Itaca glazes.

This family of glazes is designed to increase not only the color intensity but also the color range of digital inks, increasing the benefits of the digital decoration. On the one hand by increasing the intensity of the digital inks with the HCP glazes, we can reduce the amount of ink needed to reach the same tone in the final piece, significantly reducing the manufacturing costs per unit. On the other hand, we managed to expand the color range of inks and thus the one in our final developments, thanks to the fact of being able to turn the general tone of the piece to where we want, for example getting more intense reddish brown, neutral blacks, vivid yellows, intense pinks, etc. This development ensures maximum reliability and performance of the color inks in any manufacturing software.

best
color
intensity

best
color
range





The image features a dark, heavily textured background, possibly representing a material like stone or concrete. A prominent, light-colored diagonal crack runs from the top left towards the bottom left. On the left side, there is a white, geometric, angular shape that appears to be a cutout or a design element. In the bottom right corner, there is a semi-transparent grey rectangular box containing the text "new decorative possibilities".

new decorative possibilities



DIGITAL GLAZES ESMALGLASS-ITACA **DPG** (DIGITAL PRINTING GLAZE)

Within the R&D continuous effort that we assign to the field of ceramic digital technology, we introduce a novel family of digital glazes.

This family of digital DPG glazes is specially designed and developed for digital application via injection heads, offering new and extraordinary possibilities for digital decoration. For the first time an opaque white digital glaze and a clear gloss one are introduced, both can be applied to the different existing manufacturing technologies.

DPG digital opaque white glaze: its use is allocated to create special decorations in dark or coloured supports. It can create white streaks on dark backgrounds or, for instance geometric designs on coloured backgrounds.

DPG digital clear gloss glaze: especially designed to create bright areas on matte or glossy media. It creates in the ceramic part designs of gloss-matte contrast with a perfect synchronization with the design, creating a cover design completely digital. For the first time, in the ceramic inkjet world, there is something more than the simple decoration with color, we start decorating with "art" in digital form, providing the ceramic designer a huge and new range of possibilities to create clearly differentiated products.





Esmalglass-Itaca Grupo, your digital partner.

The ceramic industry is deep in a complete revolution of the hand of the digital technology, a technology that exponentially increases the graphic, productive and economic benefits. In Esmalglass-Itaca, we have a clear objective: your company will enjoy all the advantages of the digital world in the most efficient and profitable way, we want to be your digital partner.

Why Esmalglass-Itaca Group?

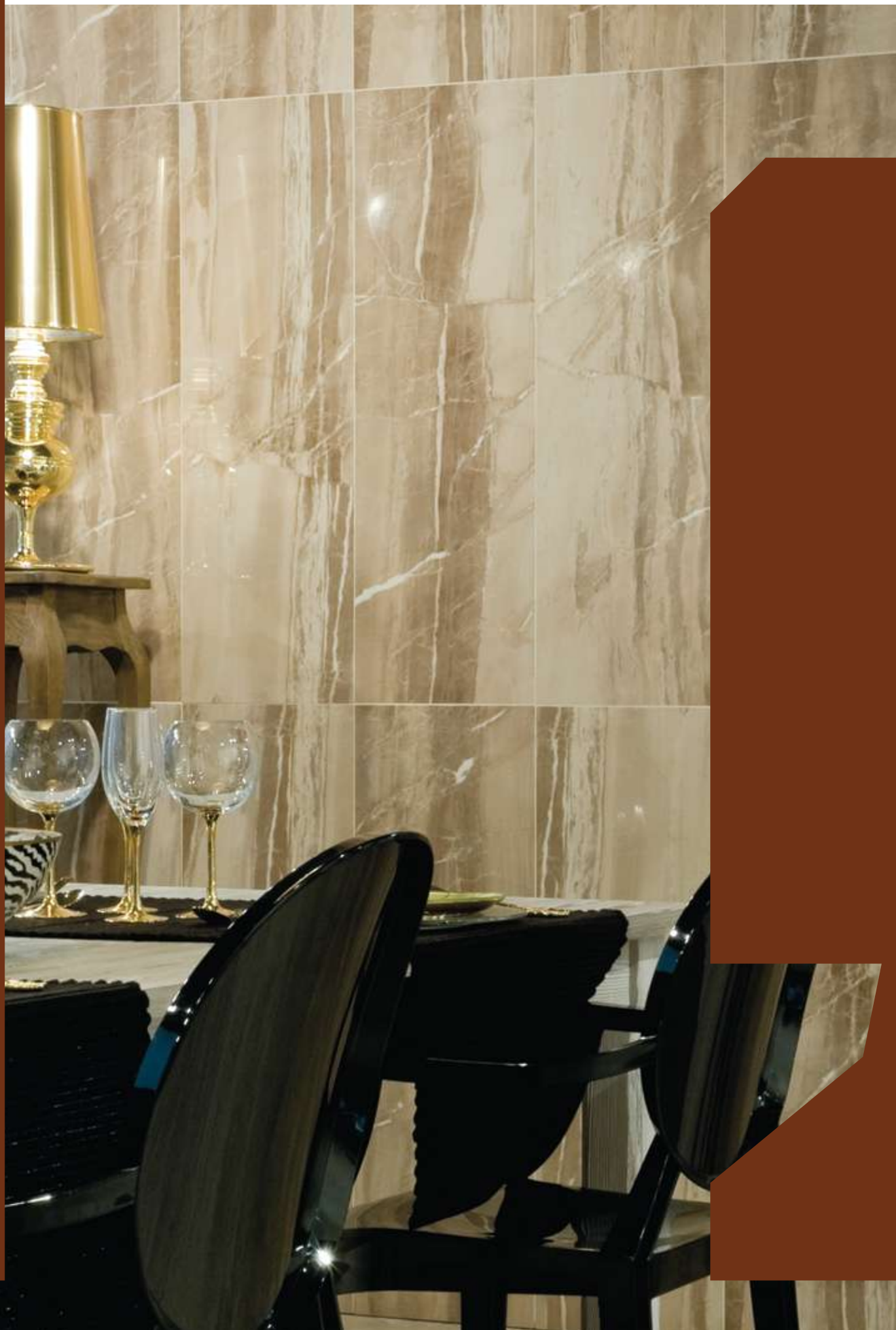
- We have an experience of over 30 years in the development of ceramic products all over the world.
- We are one the main suppliers of ceramic inks for the inkjet technology worldwide, and the one that has experienced the highest growth in an absolute and relative way during this last year.
- We have a clear and consistent policy of cooperation with every manufacturer of machinery and printing heads that allow us to have a strong partnership with all of them.
- We have a complete range of products for the digital decoration such as pigmented inks, glazes and covers.
- And of course because we have a highly qualified design, technical assistance and R&D team available for you.

Furthermore, our commitment is that you can start benefiting from all these digital advantages from the very beginning and so we offer:

- Communicate and implement this new management and ceramic production approach.
- Help you for a fast match of the existing models and developing of the new ones, all in a minimum time.
- And we put at your service all our technical assistance, design and R&D team, in order to obtain a fast achievement of the objectives.

This is our digital solution for you and defines us as your best digital partner.







Advantages of the digital technology.

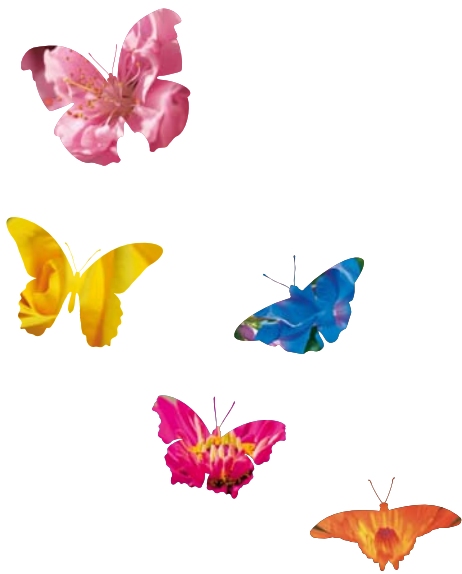
The technology of the ceramic digital decoration is experiencing a fast growth thanks to its countless competitive advantages; this is the reason why in the last year the number of machines installed in the sector of the floor tiles and wall tiles has been doubled.

Advantages:

- It is very versatile;
- It decorates without contact that is the reason why all type of pieces and relieves can be decorated, minimizing the breakages;
- It prints over the 100% if the piece;
- It can reproduce any other decorative technology with a better printing quality;
- Designs of big size can be made avoiding the repetitive designs and increasing the design options;
- The changes of modeling and graphics are faster because all is digital. Important reduction of fungible;
- The developing of the models is faster directly moving from a digital image to a production machine;
- More different products can be obtained;
- A more agile response to the changing demand of the market by a greater range of products without necessarily increasing investments and costs;
- A greater respect for the environment and increase of health and safety at work.

With our digital solutions, you will obtain added advantages:

- The total cost of the digital decoration with our inks is the same or even lower than the cost with traditional decoration;
- The wide color range of our inks, with pure and vivid ceramic colours, allows matching most of the production models, moving them to the digital technology;
- Reliability of our inks in machine and in the ceramic industrial environment;
- With the digital technology and the constant quality of our inks, the different tones of production can be drastically reduced, coming into a philosophy of production and company management of a single tone;
- Higher ratios of first quality;
- Higher productivity; Inks suitable for faster printing speed to maintain or increase productivity;



Our partners...

cretaprint[®]
ceramic decoration solutions

 **durst**


HOPE 希望


NITESA S.p.A.

KERAjet[®]

projecta[®]
inventions and innovation 

SYSTEM 

TECNOFERRARI
moving your world



esmalglass · **itaca** grupo

Fritas
Esmaltes
Colores cerámicos
Aditivos
Decoración y
piezas complementarias

Frits
Glazes
Ceramic colours
Additives
Decoration and
complementary pieces

Fritte
Smalti
Colori ceramici
Additivi
Decorati e
pezzi complementari

Fritas
Esmaltes
Corantes cerâmicos
Aditivos
Decoração e
peças especiais

熔块
釉料
陶瓷色料
添加剂
三次烧原料 及
配套产品

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