



High-performing portfolio from **FENZI** at Vitrum 2021

The first 'post-pandemic' edition of Vitrum 2021 was hosted by Fiera Milano Rho. A top-ranking event for glass industry insiders, it saw key players come together from 5-8 October to dynamically demonstrate their joint response to challenges posed by the coronavirus. With numerous companies flocking to its stand, Fenzi brought its most recent innovations - spanning all its business units as leading Group in chemicals for secondary glass processing.

ty." Such was the praise this year's Vitrum earned from Matteo Padovan, Managing Director of Fenzi SpA. Fenzi's contribution to the event included innovative products as well as high-tech solutions designed to boost thermal performance of windows while ensuring the utmost in living comfort as the company expands the

possibilities of glass decoration. From primary and secondary sealants with the most advanced eco-compatibility features to the broadest range of warm edge profiles, from decorative paints for all fields of application to mirror-backing paints - and including chemical-silvering solutions that leverage the most cutting-edge technology for

digital printing on glass. "As always," continued Padovan, "the very core of our business is invested in quality, specialization within the glass industry and optimization of product performance, with particular attention to eco-compatibility - all resulting in across-the-board appreciation of our



A N IMPORTANT EVENT FOR GLASS

"The entire industry showcased its vitality, attracting both Italian and international buyers while demonstrating its willingness to actively participate in global growth with its immense spirit of innovation and responsibili-





innovations on display. Given our focus on the current glass industry needs, we're able to offer highly technological products that coincide perfectly with market demand for quality - a commitment acknowledged by visitors to the Group's stand, much to our satisfaction. Here's why Vitrum was such a major event for us, drawing visitors Europe-wide whose specializations led to innumerable business discussions with highly-qualified industry insiders." Concluding on a positive note, Padovan affirmed that "although many overseas profes-

sionals were unable to attend owing to pandemic-related restrictions, the 22nd edition of Vitrum had a very productive outcome for all the Group's companies."

IG UNIT SEALANTS SHOWCASED AT VITRUM 2021

Fenzi's broad, diversified array of sealants facilitates production of IG units that will hold an impeccable seal indefinitely. Despite the fact that each product is already an industry leader, Fenzi research never stops, striving continually to improve performance while ensur-

ing maximal practicality and ease-of-use.

Thiover

A top-selling, reliable polysulphide sealant around the globe:

- Excellent thermal insulation performance in climates of every kind, delivering significantly improved living comfort. Perfect for high-performance, energy-saving windows;
- Suitable at all latitudes, this product will adapt best to any and all extrusion systems and processing conditions;
- All Thiover sealants conform to the most cutting-edge criteria for

eco-compatibility, being entirely solvent-free and containing neither heavy metals nor other harmful ingredients;

- Superior mechanical properties, excellent levels of gas retention and a low permeability to water vapour.

Butylver TPS

The latest-generation thermoplastic spacer perfectly synergistic with commercially available automatic applicators:

- For IGUs with superior-quality, warm edge performance, produced with the highest levels of industrial automation;

- Outstanding workability and excellent thermal performance, flexible design and absolute uniformity of colour;
- One-part, polyisobutylene base with integrated desiccants, ensures flawless adhesion with minimal permeability as well as excellent rigidity and stability;
- Makes it possible to achieve ultra-high performance IGUs of various types and sizes, with an elevated added value in terms of quality, aesthetics and, above all, durability over time.

Butylver

The butyl-based, primary sealant combining maxi-

mum quality and minimum permeability:

- High-quality polyisobutylene, one-component, solvent-free seal, achieves the lowest MVTR and GPR values;
- High resistance to ageing, excellent adhesion to glass, aluminium, steel and stainless steel, perfect processability;
- Broad spectrum of compatibility with insulating glass components and building materials;
- Maximum durability and seal, even under the most severe climatic conditions.

Hotver

The one-part, hot-melt sealant ideal for manufacturing

windows with the utmost efficiency of energy:

- The newest, most cutting-edge hot-melt sealant in the Fenzi range;
- Exceptional physical-chemical properties, excellent resistance to low and high temperatures and easy to process;
- Flawless adhesion to glass and to all traditional and warm edge spacer profiles;
- Extremely high gas leak rate performance.

Poliver

The secondary barrier polyurethane sealant, a consistent market leader, available in various versions, based

upon the needs of each operator and manufacturing system:

- Specifically formulated polyurethanes for manufacturing IGUs, exceptional ease of application;
- Entirely solvent-free;
- Can be used to manufacture double or triple IG units;
- High degree of adhesion to all glass types, extremely low permeability to water vapour and gas, excellent UV resistance.

Molver

High-quality molecular sieve specifically designed for manufacturing IG units:

- Formulated to guaran-





tee maximum absorption capacity; its chemical structure ensures longer-lasting performance within the glass;

- Particularly efficient absorption, given that moisture stays inside the granule without rising to the surface;

- Can be used in any insulating glass system that calls for perimeter sealing with polysulphide, silicone, polyurethane or hot-melt sealants.

LATEST-GENERATION WARM EDGE SYSTEM

In addition to sealants,

Fenzi Group also supplies IG unit manufacturers with aluminium, hybrid and warm edge spacer profiles produced at the Alu Pro and Rolltech plants and sold around the world by the Glass Alliance network. Alu Pro and Rolltech produce aluminium, steel

and stainless-steel spacers as well as steel combined with special plastic materials and various latest-generation warm edge spacers. All are cutting-edge products for every application – thanks, in part, to combined efforts of the companies' individual research



and development centres. The range includes some of the most state-of-the-art solutions for warm edge systems.

Chromatech Ultra

An innovative warm edge spacer that meets the most demanding requirements



for energy efficiency:

- Stainless steel and special blends of plastic comprise this exclusive, patented structure to guarantee long life, durability and state-of-the-art insulating performance; Ensures an extremely low level of thermal transmittance and exceptional ease of use, essential features for processors; furthermore, it bends easily without

any need for expensive machinery.

Multitech G

The latest-generation rigid spacer for achieving the best possible thermal performance today:

- Crafted without any use of metal and enhanced with an extremely thin, extraordinarily insulating special multi-layer barrier;
- The distinctive transparency of this multi-layer

barrier allows the original colour of the spacer profile to be maintained on all sides, making it superbly-suited to any architectural design.

Thermix Tx Pro

A modern profile made with a special technopolymer and stiffened with two highly resistant stainless-steel wires bearing exceptional thermal properties and with excellent U_w -values:

ACQUISITION OF ADVANCED GLASS TECHNOLOGIES

As key chemical player within the glass processing industry headquartered in Italy, **Fenzi Holdings SPV SpA ("Fenzi Group")** announced on 24 November 2021 the acquisition of **Johnson Matthey's ("JM") Advanced Glass Technologies ("AGT")**, a leading global provider of specialist glass enamels and precious metal pastes mainly supplied to the automotive sector.

"We are delighted to welcome the AGT organization to the Fenzi Group," said Fenzi Group's Chief Executive Officer Alessandro. "Fenzi AGT leadership in glass enamels for the automotive and industrial sectors fits perfectly with our strategy to be the largest and most complete partner for the glass industry worldwide. This partnership brings new innovative technologies to our global customer base. We believe that AGT's growth will be enhanced under the Fenzi Group."

The acquisition is expected to close in the spring of 2022.



- Partially-coated with super-thin, stainless steel foil with the dual purpose of providing bonding support for the sealants and acting as a barrier against gas loss;
- Can be cut to form frames with plastic corner keys or else bent by any of today's commercially available bending machines.

**AQUAGLASSXPACK,
THE INNOVATIVE
RANGE OF WATER-
BASED, ECO-
FRIENDLY PAINTS
FOR HOLLOW GLASS**

The Fenzi range of paints developed for the hollow glass industry is currently expanding with a new line of organic, water-based paints designed for glass

packaging. Perfect for producing surfaces with transparent, opaque and metallic colours of extremely high resistance according to industry tests and customer specifications.

Organic, one-part and water-based for decorative use, AquaglassXpack paints comprise a combination of resins and select

pigments that not only lend exceptional hardness, durability and elasticity to the paint but also unique colours. While maintaining intact all those features that have made Fenzi paints such a sought-after product in the marketplace, the new AquaglassXpack range guarantees excellent glass adhesion, exceptional



mechanical properties of the painted film, singular coverage, exemplary stability and durability of the colour over time, outstanding UV resistance and optimum colour brilliance. The AquaglassXpack line includes transparent, coloured, opaque and metallic water-based paints. With an unlimited and flexible

ABOUT FENZI GROUP

The Fenzi Group is a worldwide leader in chemicals for the glass processing industry. Founded in Milan in 1941, where the Group still has its headquarters, it now has 12 factories within strategic markets across the continents from which it delivers high-quality mirror backing paints, IG sealants and spacers and decorative glass paints.

colour palette, Fenzi delivers innumerable customization options - even with special effects. Fenzi's lab solutions successfully render a series of virtually infinite shades and colours achievable from among the international colour scales - all faithfully reproducible. Moreover, custom colour samples requested by customers are ready in all promptness. Also, the RAL, RAL DESIGN, RAL EFFECT E2, NCS, Pantone, Dulux, Sherwin William, Sikkens, Benjamin Moore, British Standard, Taubmans and Guittet formulas are always available on the company's website for fast, independent production of the desired colour shade.

DURALUX WATER BASED: FENZI'S NEW MIRROR-BACKING PAINT LINE

The most recent frontier in terms of mirror-backing paints is that of the new, latest-generation Fenzi line of products that can ably contribute to the production of high-quality, eco-friendly mirrors with outstanding reflectivity, safety and chemical resistance properties. Using a water base, the

labs at Fenzi Group have developed Duralux Water Based, a complete range of lead-free, glass-silvering, mirror-backing paints with extremely low VOC emissions - chemical agents that are potentially harmful both to one's health and to the environment.

This marks a major innovation for mirror manufacturers, processors, end users and the environment at large.

Compared with other commercially available mirror-backing paints, the special Duralux Water Based formulation makes unique performance possible including a VOC level five-times lower than that of the market standard, a use of solvents with reduced environmental impact, extraordinary chemical resistance and greater product durability. This is a one-coat, user-friendly painting system that's convenient for either curtain or spray application, completely lead-free, perfect for use on copper-free mirrors. It can also be applied on most existing mirror lines that use traditional solvent-based paints.

The Duralux line ensures a

high-performance product that's tried and true while being also constantly updated. Over 80 years in business, the Group has become a global leader in glass-processing chemicals, offering a complete range of products as it sets the standard for the entire glass industry. Thanks to its considerable prowess with innovation and based upon its know-how, acquired over so many years in the market, as well as its research and development activities consistently focused on customer needs, the Group has created a complete product range that's always cutting-edge, thereby so ranking it among the preferred partners for mirror manufacturers around the world.




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