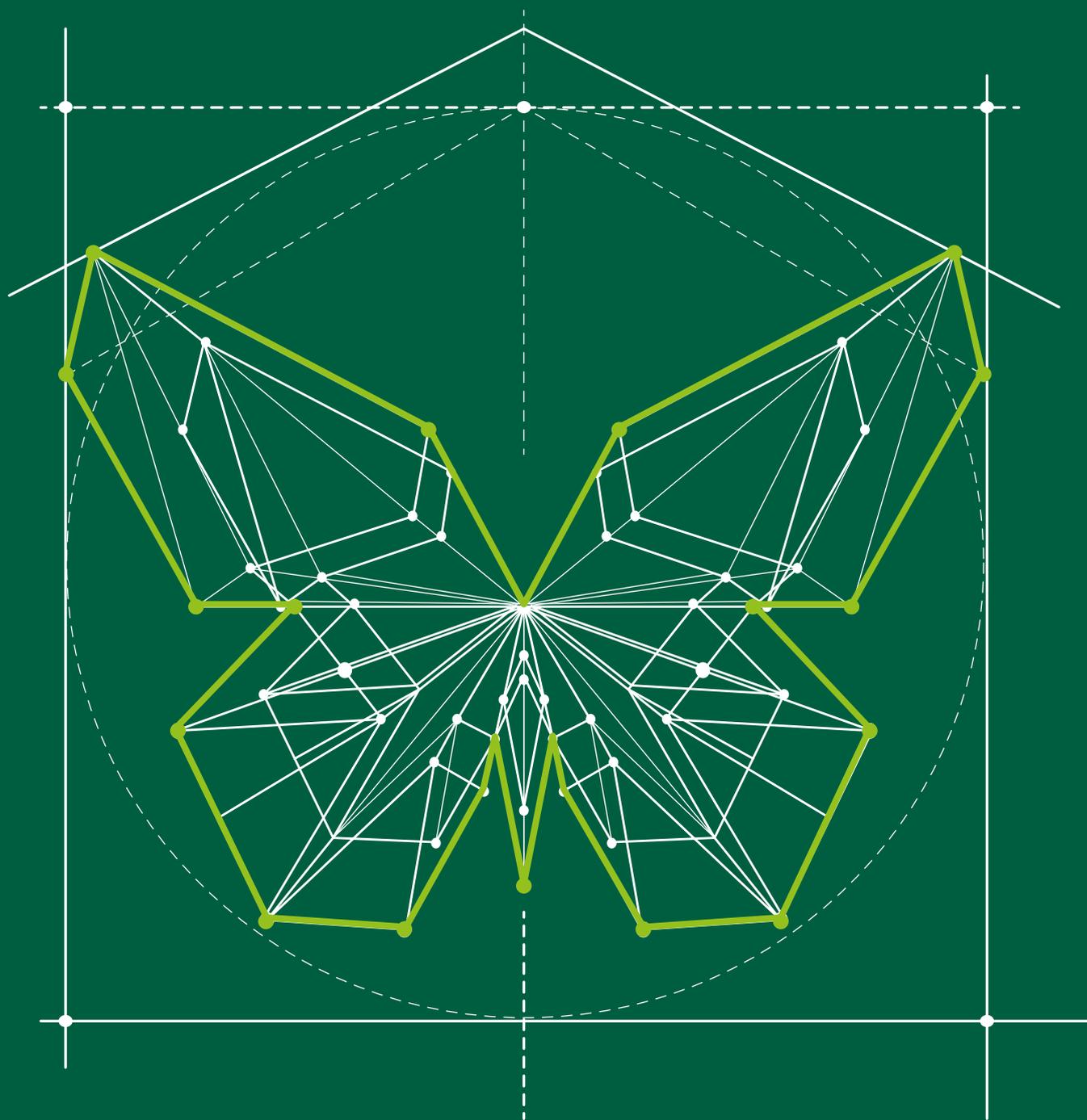


Solutions for your rendering needs

fassalime



**FASSA
BORTOLO**

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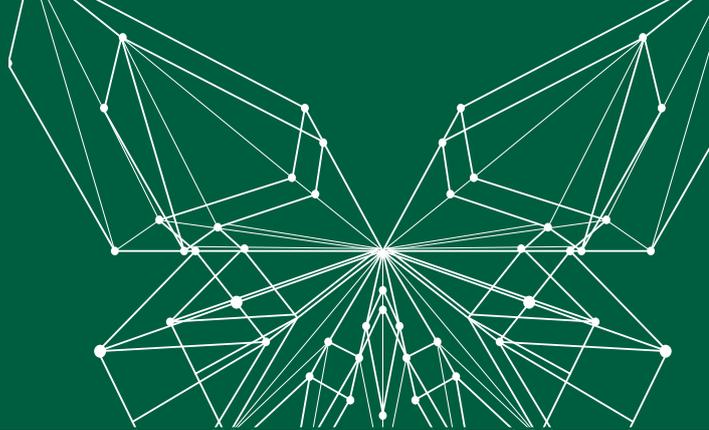
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OUR EXPERIENCE IS YOUR GUARANTEE



Fassa Bortolo's tradition stretches back to 1710. Passed down from generation to generation, it has constantly evolved, standing out for innovations which have made an essential contribution to the construction sector.

In Italy, it was the first company to introduce premixed lime, cement plasters and renders for all types of building work. It was also the first to develop silo technology, the supply system which revolutionised work on site.

Today, it is a market leader and a reference point for designers, suppliers and the contractors themselves.

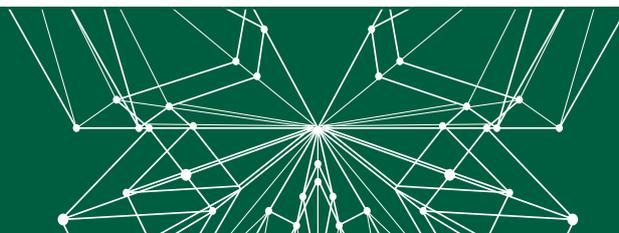
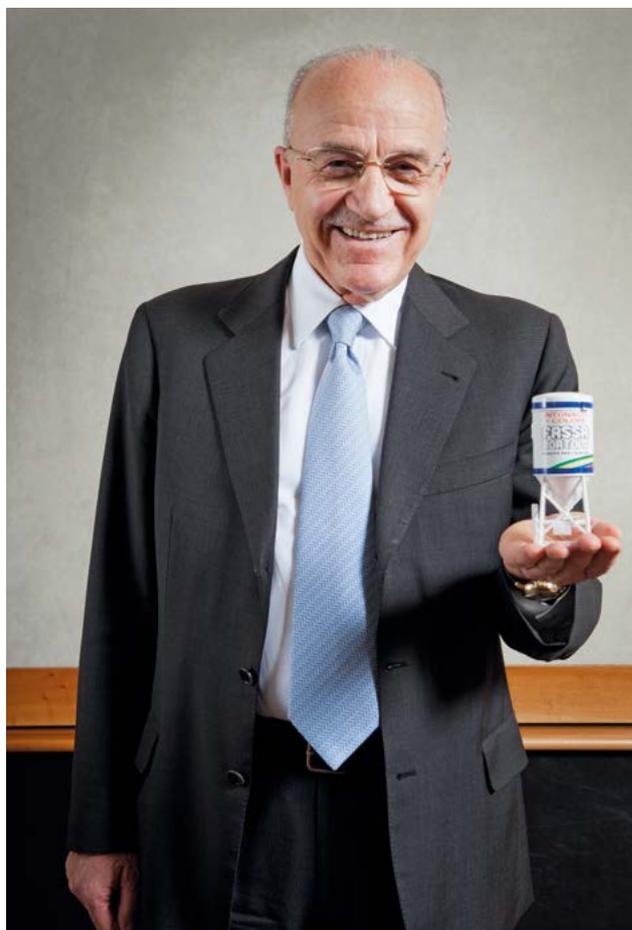
QUALITY BUILDING AND LIVING IN RESPECT OF MAN AND THE ENVIRONMENT

Our experience is your guarantee of quality building and living, in respect of man and the environment.

One philosophy runs through the whole Fassa Bortolo product portfolio: a mission to bring innovations into our working and living surroundings. Developing products and materials with far better performance and improving the physiological well-being of the individual, whilst being in harmony with the environment.

Safety, efficiency, durability... here at Fassa Bortolo, our values have also always included comfort, balance and respect, because we are committed to evolution of the building sector and improving quality of life.

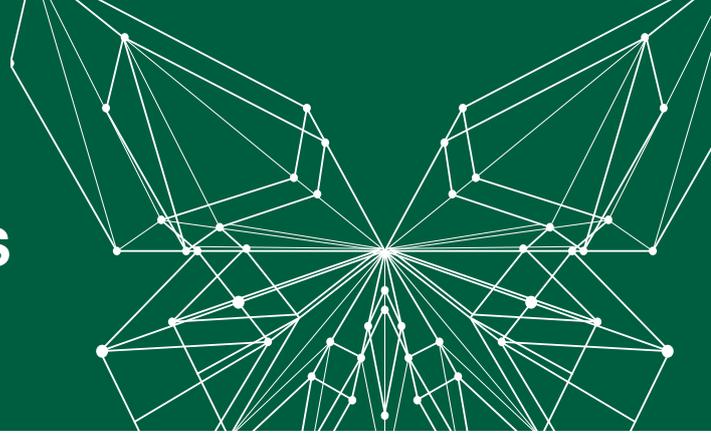
We combine all our resources to achieve one single objective - greater well-being and better quality of life.



**300 YEARS OF HISTORY
15 SYSTEMS**



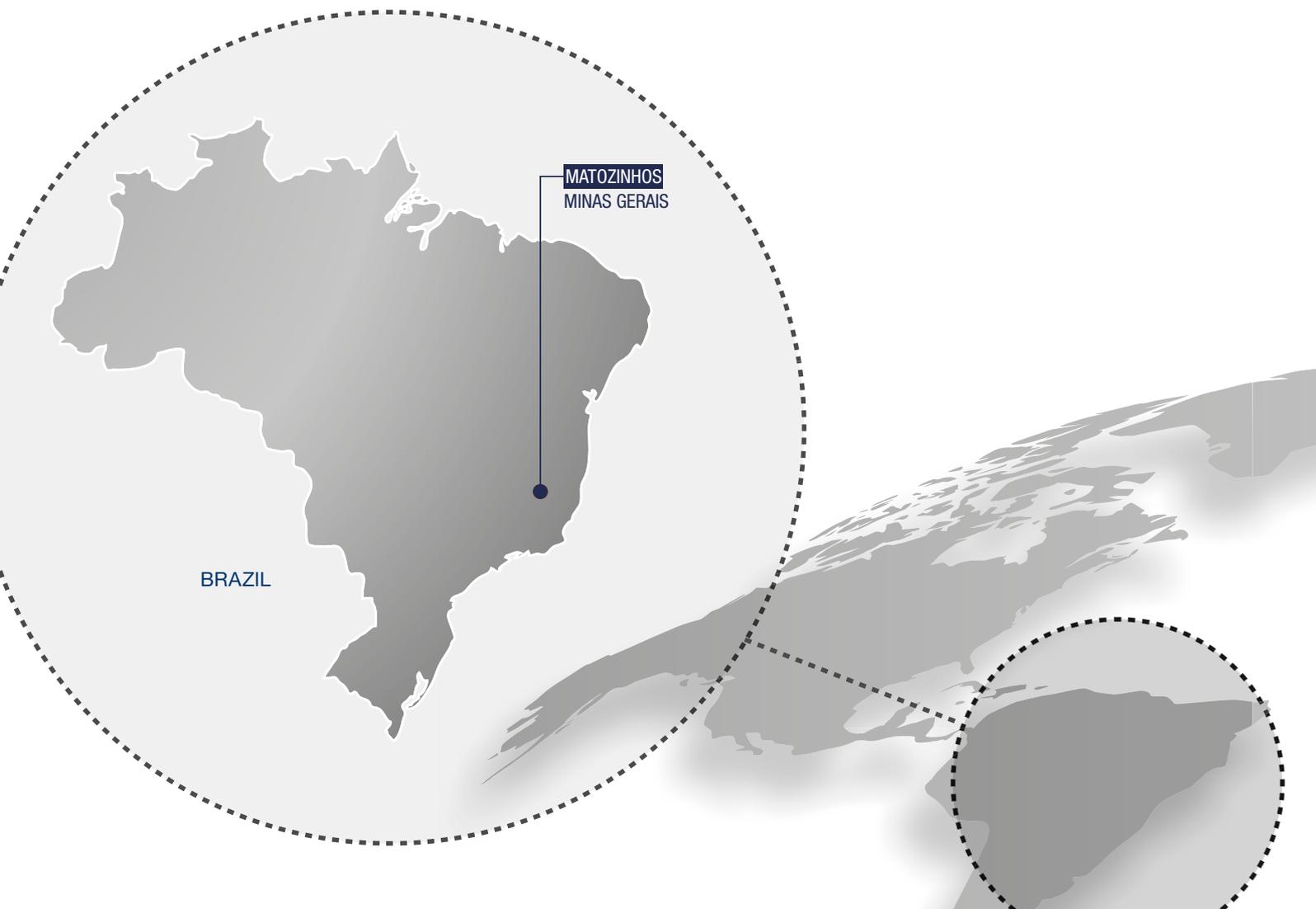
SOLID ROOTS FOR DEVELOPMENT OBJECTIVES

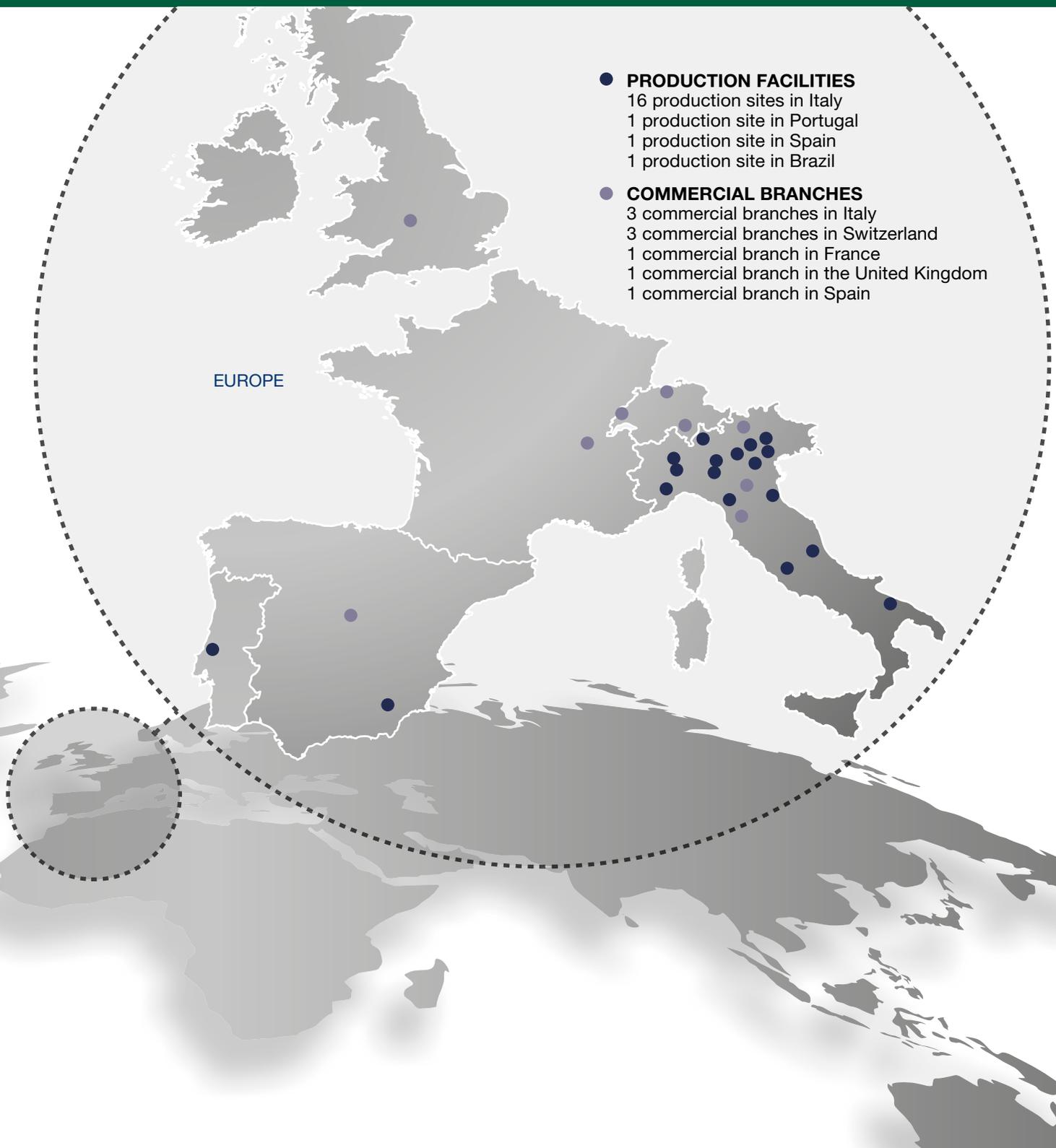


Fassa Bortolo's history dates back all the way to 1710, yet it is in an old factory from the early 1900s, the former Opificio Lazzaris in Spresiano and currently home to management offices, where our industrial vision began, leading to a series of major expansion projects on national and international markets. An important site where ideas continuously come to fruition, a sort of incubator that promotes and supports competitive challenges.

Development ideas that continue to lay new foundations for a dynamic and extensive presence, always close to the customer. Ideas of progress whose strategic foundation lies in the skills of the people who run the company today, and those who are preparing to accompany it in the future.

A strategically-located presence, with "zero mile" products and special attention to sustainability, reducing pollution from transport and limiting the amount of exhaust gases and tyre rubber in the environment. To continue to offer the building industry that superior quality that today's construction and renovation market demands.





CERTIFIED QUALITY FOR THE BUILDING SECTOR

Fassa Bortolo also proves its attention to sustainable development through its active work on the market as a member of GBC Italia (Green Building Council) and as a partner of CasaClima and Legambiente Onlus.



UKCA

The UKCA (UK Conformity Assessed) marking is a new UK product marking that is used for goods being placed on the market in Great Britain (England, Wales and Scotland). It covers most goods which previously required the CE marking, known as 'new approach' goods.



BRITISH BOARD OF AGRÉMENT (BBA)

The BBA has certified our FASSACOUCHE as well as our FASSATHERM External Wall Insulation System on masonry: the latter was a necessary requirement to extend the offering of the Fassatherm, already with European Technical Approval (ETA), specifically to the British market.



BDA AGRÉMENT

KIWA has certified the FASSATHERM External Wall Insulation System on steel frame structure and the "FASSAREND" system with A 96 on a cement based render carrier board, for installation on external timber framed or solid walls. The BDA Agrément has received the NHBC third party acceptance for the UK market.



EUROPEAN TECHNICAL APPROVAL (ETA) AND SAFETY IN ALL COMPONENTS

From insulation to adhesive/base coat, anchors and reinforcing bars, all elements in the FassathermR External Thermal Insulation Composite System are submitted to the strictest controls possible. The Fassatherm® External Thermal Insulation Composite System has obtained European Technical Approval (ETA) that attests its technical suitability for thermal insulation applications.



CONSTRUCTION PRODUCTS REGULATION CPR 305/2011 – CE MARKING AND DOP

All Fassa products comply with EC standards and regulations, satisfy all the performance requisites for building products (CPR 305/2011) and bear CE and DoP marking. The DoPs (Declarations of Performance) for Fassa Bortolo and Gypsotech products can be downloaded from our website www.fassabortolo.com. All technical documentation bears special logos highlighting possession of these requisites, while others confirm compliance to the criteria and classification methods specified in European standards and regulations.



ANAB (ASSOCIAZIONE NAZIONALE ARCHITETTURA BIOECOLOGICA) AND ICEA (ISTITUTO PER LA CERTIFICAZIONE ETICA E AMBIENTALE) QUALITY CERTIFICATION

This represents important recognition for our bio-ecological products, certifying maximum care paid to the environment and complete compliance with the strictest bioarchitecture criteria. Fassa Bortolo's Bio-Architecture line was the first line in Europe to obtain certification with KB 13, the first plaster certified in 1999, setting the standards in the sustainable architecture sector.



GEV EMICODE

Voluntary mark certifying the emission of volatile and semi-volatile organic compounds (VOC and SVOC) issued by GEV (Association for the Control of Emissions in Products for Floor Installation, Adhesives and Building Materials), applied to the products in the System for Laying Floor and Wall Coverings. Following severe tests, the very low emissions of Fassa products earned them EC1 Plus certification.



INDOOR AIR QUALITY

All products in the Fassa Bortolo Colour System respect the parameters established by European Union regulations and standards aimed at limiting the emission of organic compounds. They therefore comply with the provisions of Italian Legislative Decree no. 161 of 27/03/2006 (implementing Directive 2004/42/EC), identifying the maximum content of Volatile Organic Compounds (COVs) in paints and paste coatings.



FRENCH LABEL - ÉTIQUETAGE SANITAIRE

Classification and labelling system applied to emissions of Volatile Organic Compounds (VOCs) from construction and decoration products and indoor finishes, required for the French market.



QB CERTIFICATION

This certification classifies the performance of tile cements and adhesives and the implementation and application of production control system capable of ensuring constant product quality.

bio-architecture

SUSTAINABLE BUILDING

Sustainable architecture and environmental issues have become rooted in popular culture and the work of building professionals.

Sustainable building means promoting ecological awareness through the image of the building, with its features being related to its relationship with the environment.

SUSTAINABLE BUILDING PROMOTING A CULTURE OF RESPECT

An aptitude to promote, support and disseminate a culture that respects the distinctive values of bio-architectural building.

06

SUSTAINABLE BUILDING GUARANTEES OF THE RIGHT CHOICES

A series of national and international certifications that add value to the guarantee of the company's professionalism and the technical and technological reliability of the proposed solutions.

05

SUSTAINABLE PEOPLE-F BUILDING

The expertise of Fa Development mean the terms of performance complex

04

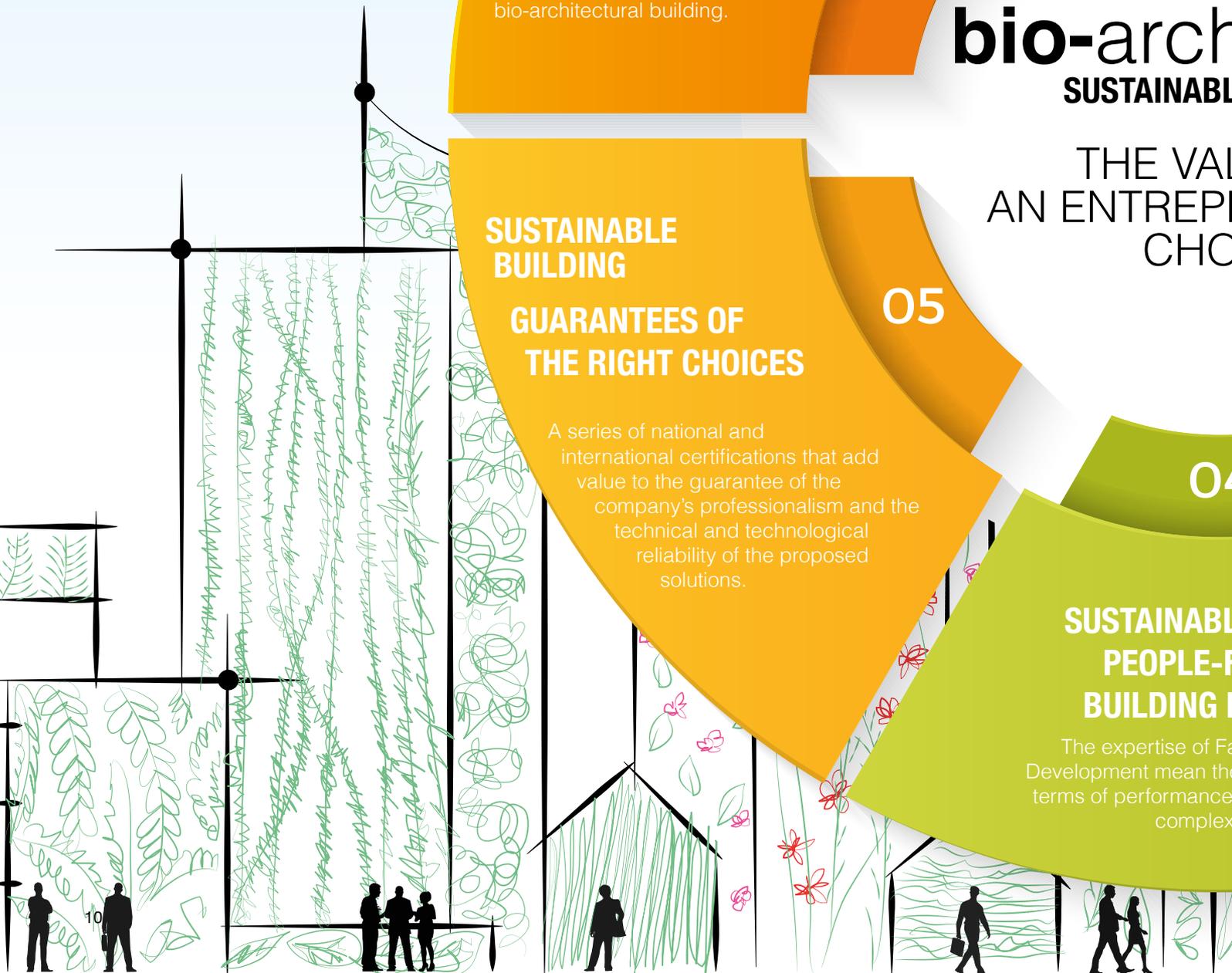
SUSTAINABLE THE RAW MA ENSURES OUR

Lime is the thread th innovation to ensure inc being very widely used

03

bio-arch SUSTAINABLE

THE VAL AN ENTREPR CHO



LE BUILDING MATERIAL THAT WELL-BEING

at joins tradition and
floor comfort, as well as
in the building industry.

1

Architecture LE BUILDING

VALUE OF RENEURIAL ICE

4

LE BUILDING FRIENDLY PRODUCTS

assa's Research &
e products respond in
to a demanding and
market

SUSTAINABLE BUILDING A COHERENT, ADVANCED SUPPLY CHAIN

02

From extraction at the company's own quarries to transformation into products of excellence, the company's processes reflect the changes in the market.

03

SUSTAINABLE BUILDING SOLUTIONS FOR INNOVATIVE BIO-PROFESSIONALS

A series of solutions designed for innovative professionals who share the company's principles and values and are thus ambassadors for sustainability.

Sustainable building means reducing environmental impact and setting energy efficiency as design goals, improving the health, comfort and quality of life of inhabitants, objectives that can be achieved by incorporating appropriate structures and technologies into the building.

Sustainable building means managing a building that satisfies the needs and demands of its owner, taking into account natural rhythms and resources right from the initial stages of the project, without causing damage or inconvenience to others and the environment, striving to fit harmoniously into the context and thus also thinking about the ability to totally reuse spaces and materials.



bio-architecture

SUSTAINABLE BUILDING



Fassa's history started a very long time ago. Over 300 years have passed since the birth of a company that, over the centuries, with its passion for construction has become a point of reference in the building industry.

In the last thirty years it has developed a vocation for bio-architecture, starting with one of the raw materials it handles: lime, perhaps the most strategic in a sector with increasingly awareness of sustainability.

This is an area in which the company is at the forefront in continuous research into new products and the technological evolution of building systems that respect the demands of sustainability. A vision guaranteed by a coherent, advanced supply chain in terms of quality and innovation of production processes.

The result is people-friendly products that help create liveable spaces, with the overall goal of total indoor comfort. The technical and technological solutions are designed for today's building professionals, those who share a culture of continuously evolving their skills, adapting them to changing living styles.

Fassa's customers' attention to bio-architecture is supported by certification organisations, ensuring compatibility with the parameters required to achieve sustainability.

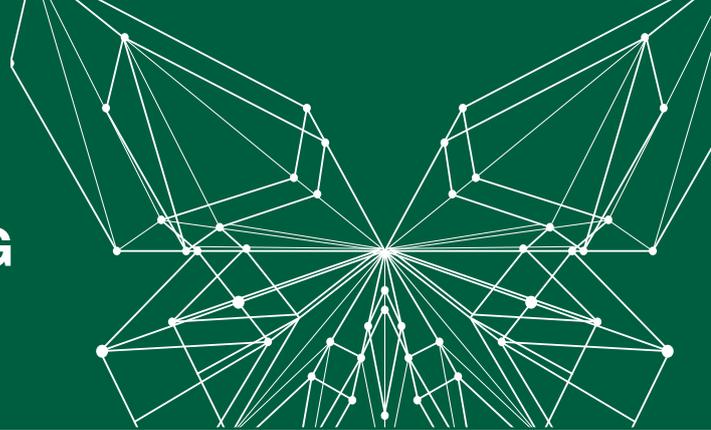
Finally, several strategic partnerships, such as with the Italian environmental association Legambiente and universities, further strengthen the guarantee of a company that is projected into the future with a visionary role, in search of the best possible building for people, today and tomorrow.

Fassa's relationship with bio-architecture is one that has evolved over time and that leaves its "green" mark in a society that dreams of a better, cleaner and more respectful environment for people's real needs.

THE VALUE OF AN ENTREPRENEURIAL CHOICE



THE RAW MATERIAL THAT ENSURES OUR WELL-BEING



Indoor comfort is the thread that joins tradition and innovation. At Fassa Bortolo, this thread is created by the use of **pure natural materials such as LIME** and by continuous research to offer the highest performance.

Lime is a binder that has been used in building since ancient times, ideal for making mixtures used in the conservative restoration of ancient walls with an irreplaceable historical and artistic value.

EN 459-1 provides a general definition of the different types of building lime and their classification, as well as the requirements relating to their properties, specifying compliance criteria.

Air lime and hydraulic lime

The main distinction is between **air lime** and **hydraulic lime**. While the former hardens in contact with air, the latter hardens even in the presence of water. This difference is due to the composition of the raw materials used. Both types were widely used in construction work even in ancient times.

Air lime

Lime is obtained by heating materials that contain high quantities of calcium carbonate to high temperatures. At a temperature of at least 900° C, the calcium carbonate decomposes into calcium oxide (so-called “quicklime”) and carbon dioxide. The quicklime is then “slaked” with water, creating calcium hydroxide (**slaked lime**).

Air lime, both quicklime and slaked lime, is an extraordinary material used in many different sectors. It is the ideal **environmentally-friendly additive**, used as a reagent in treating industrial and civil waste water, stabilising and disinfecting sewage sludge, and cleaning exhaust gas from incinerators and power plants.

Lime can also completely or partly replace the raw calcium carbonate used for production of soda lime glass and fibre-glass, bringing numerous benefits.

IN THE STEEL INDUSTRY	IN AGRICULTURE	IN ROAD WORKS	IN ENVIRONMENTAL WORK	IN BUILDING
Lime, thanks to its specific chemical properties, is widely used in the steel industry, where it plays a decisive role by removing impurities such as silicone, sulphur and phosphorus. Quicklime is used for smelting and refining steel; calcium carbonate and hydrated lime are used in the production of agglomerated iron ore to manufacture cast iron; finally, lime-based mixtures, with their excellent ability to remove sulphur, are used for the production of high quality steels.	“Liming” is the specific technical term describing a practice that has been used for millennia in agriculture: adding lime to soil for growing crops. Lime, in fact, corrects and neutralises soil acidity, improves its physical structure, promotes water absorption and root penetration, regulates fermentation during composting, and is an excellent disinfectant with a low environmental impact.	The many properties of lime include consolidation and stabilisation of soils: it thus plays a decisive role in the construction of foundations for roads, railways, airport runways, landfills and artificial channels. Adding lime to clayey soils, sands and gravels improves their mechanical strength, making them high quality inert materials for any type of work.	The natural material par excellence makes a decisive contribution to protecting the environment. Lime is in fact used for treating waste water and sewage sludge, as well as for abating polluting fumes from industrial plants, incinerators and power plants. A system that guarantees the highest effectiveness at a relatively low cost.	Building is undoubtedly the oldest field of application of lime. An element that has always been essential in the building industry is today more than ever a fundamental component of masonry mortars and premixed plasters. An area in which Fassa Bortolo has always guaranteed the highest quality, with a complete range of products for any building work, from new constructions to restorations and renovations.



Hydraulic lime

Hydraulic lime is obtained by burning materials that, in addition to calcium carbonate, also contain components such as silicates and aluminates; compared to air lime, the latter give the lime the ability to set and behave as a binder when in contact with water. The burning temperature never exceeds 1100°.

According to EN-459 part 1, there are two types of hydraulic lime:

- Natural Hydraulic Lime (NHL) - is the lime produced from argillaceous or siliceous limestone that is burnt and slaked and reduced to powder with or without grinding.
- Hydraulic Lime (HL) - is obtained by blending appropriate materials (calcium silicates and aluminates) with limestone and burning the mixture, which is then slaked and reduced to powder with or without grinding

Natural hydraulic limes are also graded based on their compressive strength:

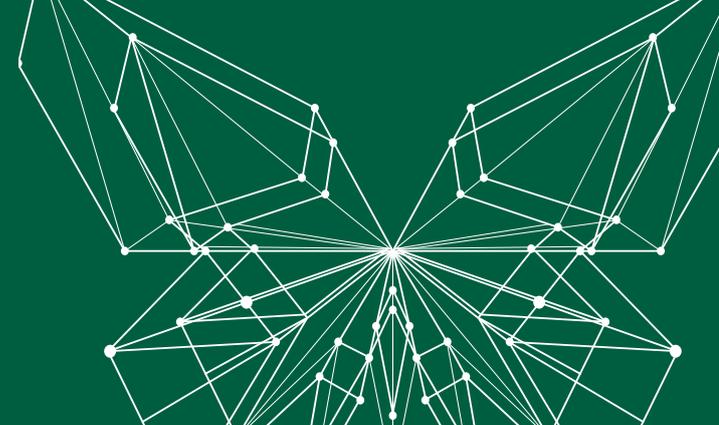
Type of natural hydraulic lime for building	Compressive strength (MPa)	
	7 days	28 days
NHL 2	-	≥ 2 to ≤ 7
NHL 3.5	-	≥ 3.5 to ≤ 10
NHL 5	≥ 2	≥ 5 to ≤ 15

Fassa has been working with lime since 1710, and indeed this important raw material is part of the company’s DNA. The construction of the first lime kilns marked the beginning of a success story that has continued to the current day, reaching new qualitative heights in terms of research, innovation, technology and care for the environment.

Today the **Fassa Bortolo Group is the only company to produce all types of lime: calcium lime, magnesium lime, dolomitic lime and NHL 3.5 natural hydraulic lime.**

To ensure excellence in every field of application, our limes are strictly controlled in every stage of production, from the careful choice of the purest part of the raw material to constant monitoring throughout the production process.

A COHERENT, ADVANCED SUPPLY CHAIN



Fassa Bortolo is a highly structured company that has a very close bond with the environment.

Our **QUARRIES** are where we source **calcium carbonate** and **gypsum, the essential raw materials used in most of our products**. In these company-owned sites, either open-cut or underground, only the latest extraction technologies are used, respecting the local territory, the natural environment and above all the health and safety of workers. Our limestone and gypsum quarries are operated and managed directly, using techniques conceived to ensure **environmental remediation and reuse of the quarry area at the end of operations**.

One important objective for the company is: **“everything must return to how it was before”**. This is why it has developed a very rigorous “quarrying culture”. Our quarrying operations are designed to preserve equilibrium in terms of geomorphology, hydrogeology and the landscape, and consequently minimise the impact on the local environment. Moreover, we constantly **measure the dust and noise produced during processing**, so as to ensure quality of both the working and outdoor environment at all times.

The best possible environmental remediation needs to be planned when designing the quarry and needs to be contextual to its management. In other words, the quarry needs to be managed with its final remediation already defined. Indeed, carrying out environmental remediation simultaneously with the extraction operations offers the chance to monitor in a timely manner the actual results of the remediation work and whether this meets the forecasts.

The raw materials extracted are mostly sent to the two main **PRODUCTION SITES** that have always **produced lime**, in **Spresiano (Treviso, Italy)** - also the company’s historical headquarters - and **Montichiari (Brescia, Italy)**. Three other production sites have now also been added, in **Schio (Vicenza, Italy)**, **Ceraino di Dolcè (Verona, Italy)** and **Villaga (Vicenza, Italy)**. Through these recent acquisitions, the company has strengthened its position in the sector, becoming **the second largest manufacturer of lime nationally**, with a significant increase in daily volumes. These sites are equipped with **special parallel flow regenerative shaft kilns, the type of system with the lowest energy consumption** currently on the market. Further concrete demonstration of the company’s attention to the impact of production.

A significant part of the lime produced is then used internally at different production sites throughout the country, where it is transformed into product lines and solutions for modern and sustainable building.

An important **RESEARCH AND DEVELOPMENT CENTRE** supports the entire production process, with expertise and innovation. **Fassa I-Lab**, the **company’s Research Centre** can indeed boast a **wide range of state-of-the-art equipment**, guaranteeing certified, **selected and tested solutions**. The raw materials are analysed at a microscopic level, evaluating their chemical-physical properties, so as to be able to select formulations that are consistent with the quality of the products. Specific tests are then conducted to certify application performance in the widest variety of environmental conditions. Attention to research is demonstrated by **ISO 9001:2015 certification**, enhancing the quality of the processes and the research choices, considered one of the strategic levers of the company’s success and a guarantee for its customers.



bio-architecture

SUSTAINABLE BUILDING

Environment, safety and respect for the community are the basis of our production operations

Environmental protection, eco-compatible development, and safeguarding worker health and safety have always been the primary objectives of our manufacturing activities. Achieving these objectives is indeed a concrete challenge, aimed at combining the legitimate needs of laws and society as a whole, with the company's aspirations to become more competitive.

This is this context in which effective solutions are found, from design right through to issues involving occupational health and safety and environmental protection. The company's technical and financial commitment to the environment and workplace safety are focused on using the best technology available to prevent and reduce any source of pollution deriving from manufacturing activities. With this in mind, the production plant in Brescia province is today the first in Italy capable of manufacturing lime in **compliance with the strictest European emission limits**. A tangible objective has been achieved in terms of dust emissions that, through the use of innovative abatement systems, are below the limit of 5 mg/Nm³. This approach also ensures compliance with the NOx limit of 350 mg/Nm³. Emissions are also controlled automatically by the EMS - Emissions Monitoring System, which guarantees **constant compliance with the limit values set by the competent authority**.

In order to reduce the consumption of fossil fuels - which are not just costly, but also have a negative impact, in particular regarding CO₂ emissions - and in full application of the Kyoto protocol to reduce greenhouse gas emissions, Fassa Bortolo has decided to **use waste from wood processing as fuel, which by nature produces 21% less CO₂** than methane. Without forgetting the importance of water as a resource, it has also been decided to design **systems to recover rainwater and waste water from the production cycle** and use it for production-related activities. One last yet important aspect involves acoustic and visual impact, factors that are not secondary for the people who live near the company's production sites.



CO₂

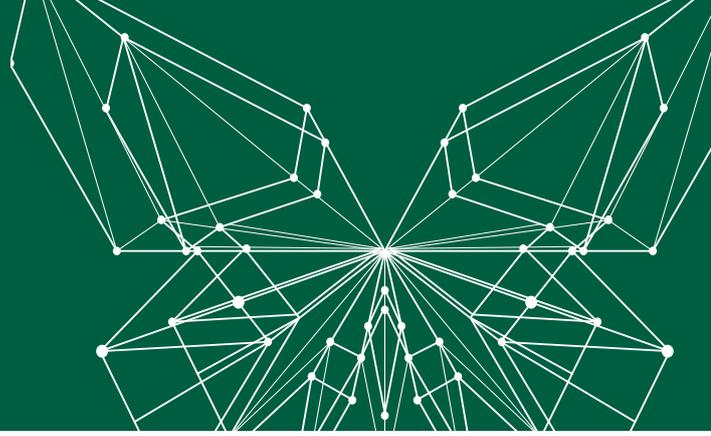
EMISSIONS FROM
COMBUSTION REDUCED
TO ZERO

REPLACEMENT OF
FOSSIL FUELS

PLANTS IN COMPLIANCE WITH
THE NEW EUROPEAN BENCH-
MARKS



CYCLES



1. RENDERING ONTO AERATED BLOCKWORK



CYCLE 01
**HYDRATED LIME
RENDERING CYCLE**
PURACALGE line products

2. RENDERING ONTO MEDIUM DENSE BLOCKWORK



CYCLE 2A
**HYDRATED LIME
RENDERING CYCLE**
PURACALGE line products



CYCLE 2B
**NHL 3.5 NATURAL
HYDRAULIC LIME**
EX NOVO line products

3. RENDERING ONTO BRICKWORK



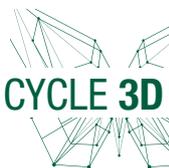
CYCLE 3A
**HYDRATED LIME CYCLE
FOR DRY WALLS**
PURACALGE line products



CYCLE 3B
**HYDRAULIC LIME CYCLE
FOR DRY WALLS**
EX NOVO line products



CYCLE 3C
**HYDRATED LIME CYCLE
WITH TEXTURED FINISH,
FOR DAMP WALLS**
PURACALGE line products



CYCLE 3D
**HYDRATED LIME CYCLE
WITH SMOOTH FINISH,
FOR DAMP WALLS**
PURACALGE line products



CYCLE 3E
**HYDRAULIC LIME CYCLE
FOR DAMP WALLS**
EX NOVO line products



4. RENDERING ONTO OLD STONES



**HYDRATED LIME CYCLE
FOR DRY WALLS**
PURACALCE line products



**HYDRAULIC LIME CYCLE
FOR DRY WALLS**
EX NOVO line products



**HYDRATED LIME CYCLE
WITH TEXTURED FINISH,
FOR DAMP WALLS**
PURACALCE line products



**HYDRATED LIME CYCLE
WITH SMOOTH FINISH,
FOR DAMP WALLS**
PURACALCE line products

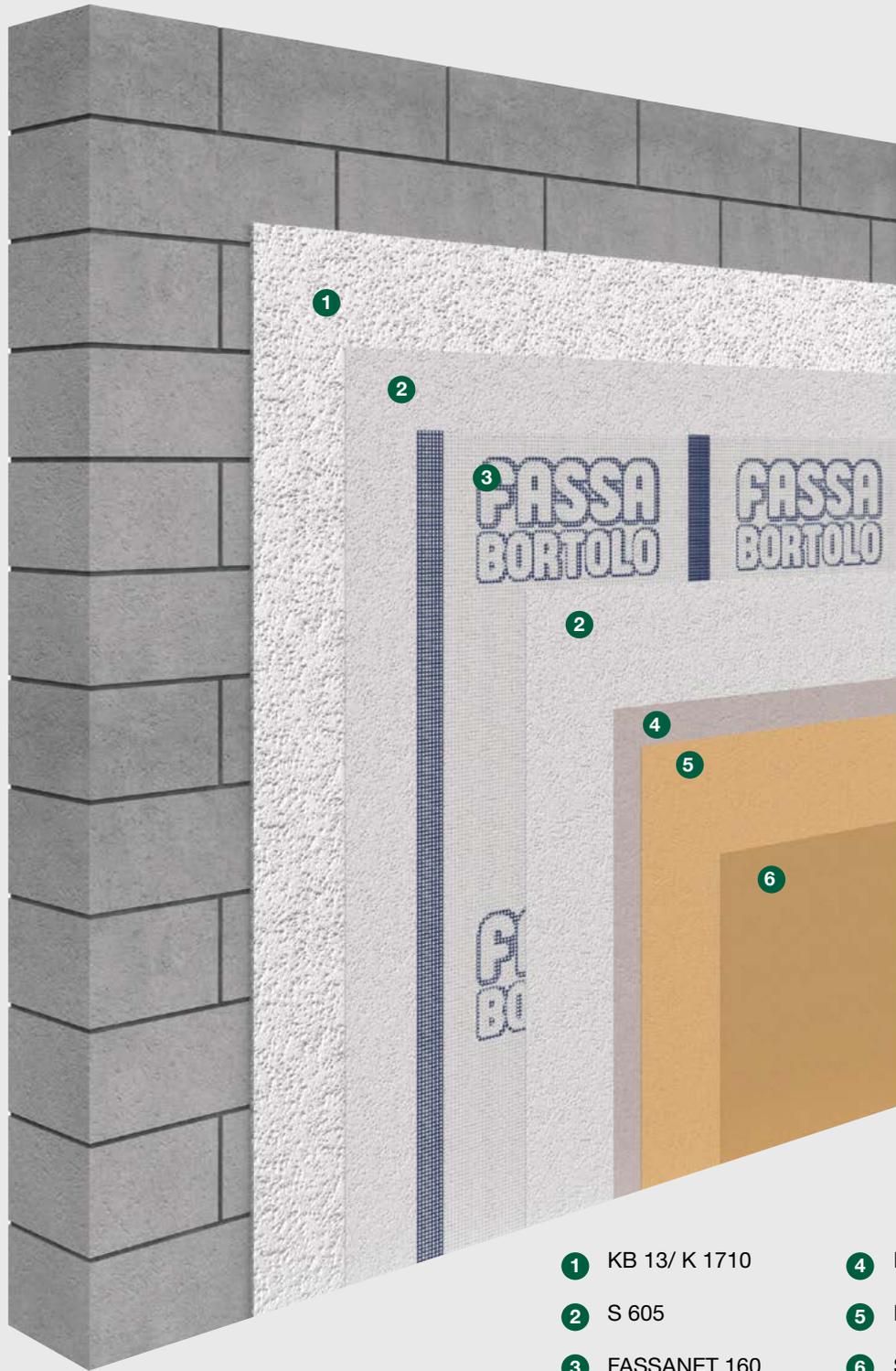


**HYDRAULIC LIME CYCLE
FOR DAMP WALLS**
EX NOVO line products



RENDERING ONTO AERATED BLOCKWORK (3.5 KN) *Hydrated lime rendering cycle*

PURACALCE
LINE PRODUCTS



- | | | | |
|---|---------------|---|----------|
| 1 | KB 13/ K 1710 | 4 | FS 412 |
| 2 | S 605 | 5 | RSR 421 |
| 3 | FASSANET 160 | 6 | SKIN 432 |

Hydrated lime rendering cycle for lightweight blocks (3.5 kN blocks with a density > 450 kg/m³). The PURACALCE line products ensure high substrate breathability; the choice of a ready-to-use top coat ensures a wide variety of colours in different gradings; the siloxane protective finish gives the surface suitable water repellency.

- High breathability
- Ready-to-use top coat in different gradings
- Suitable water repellency

BASE COAT



KB 13
Bio lime base coat plaster and render, with marmorino effect.

OR



K 1710
Bio traditional fibre-reinforced base coat plaster and render made from pure nano-lime with pozzolanic effect.

FINISH COAT



S 605
Bio white finish coat plaster and render for the restoration of damp masonry, with marmorino effect.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

PRIMER AND DECORATIVE COAT



FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.



SKIN 432
Protective siloxane finish for exteriors.

Hydrated lime rendering cycle for medium density blocks. The PURACALCE line products ensure high substrate breathability; the choice of a ready-to-use top coat ensures a wide variety of colours in different gradings; the siloxane protective finish gives the surface suitable water repellency.

- High breathability
- Ready-to-use top coat in different gradings
- Suitable water repellency

BASE COAT



KB 13
Bio lime base coat plaster and render, with marmorino effect.

OR



K 1710
Bio traditional fibre-reinforced base coat plaster and render made from pure nano-lime with pozzolanic effect.

FINISH COAT



S 605
Bio white finish coat plaster and render for the restoration of damp masonry, with marmorino effect.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

PRIMER AND DECORATIVE COAT



FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.



SKIN 432
Protective siloxane finish for exteriors.



RENDERING ONTO MEDIUM DENSE BLOCKWORK (7.3 KN) *NHL 3.5 natural hydraulic lime*

EX NOVO

LINE PRODUCTS



1 INTONACO 700

2 FINITURA
IDROFUGATA 756/
FINITURA 750

3 FASSANET 160

4 FS 412

5 RSR 421

6 SKIN 432

Application cycle based on NHL 3.5 natural hydraulic lime for medium density blocks. The EX NOVO line products ensure good mechanical strength and high breathability; the choice of a ready-to-use top coat ensures a wide variety of colours in different gradings; the siloxane protective finish gives the surface suitable water repellency.

- High breathability
- Good mechanical strength
- Ready-to-use top coat in different gradings
- Suitable water repellency

BASE COAT



INTONACO 700
Base coat bio-plaster and render made from natural hydraulic lime NHL 3.5.

FINISH COAT



FINITURA IDROFUGATA 756
Bio water repellent wall coating made from NHL 3.5 natural hydraulic lime for exteriors and interiors.

OR



FINITURA 750
Bio finish coat plaster and render made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, with marmorino effect.

*Finishes available in the following colours:

	Bianco		F 267
	G 201		C 223
	O 256		M 234
	R 212		

The colours reproduced are purely indicative and may vary for reasons due to printing, reproduction and conversion of the images; for these reasons, Fassa S.r.l. offers no guarantee whatsoever.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

PRIMER AND DECORATIVE COAT



FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.



SKIN 432
Protective siloxane finish for exteriors.



RENDERING ONTO BRICKWORK

Hydrated lime cycle for dry walls

PURACALCE

LINE PRODUCTS



1 S 650

2 KB 13/ K 1710

3 S 605

4 FASSANET 160

5 FS 412

6 RSR 421

7 SKIN 432

Hydrated lime rendering cycle for brick walls, using products from the PURACALCE line to give the substrate high breathability. The undercoat ensures uniform substrate absorption and improves adhesion of the base coat; the choice of a ready-to-use top coat ensures a wide variety of colours in different gradings; the siloxane protective finish gives the surface suitable water repellency.

- High breathability
- Ready-to-use top coat in different gradings
- Suitable water repellency

UNDERCOAT



S 650
Bio white undercoat for the restoration of damp masonry, for interiors and exteriors.

BASE COAT



KB 13
Bio lime base coat plaster and render, with marmorino effect.

OR



K 1710
Bio traditional fibre-reinforced base coat plaster and render made from pure nano-lime with pozzolanic effect.

FINISH COAT



S 605
Bio white finish coat plaster and render for the restoration of damp masonry, with marmorino effect.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

PRIMER AND DECORATIVE COAT



FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.



SKIN 432
Protective siloxane finish for exteriors.

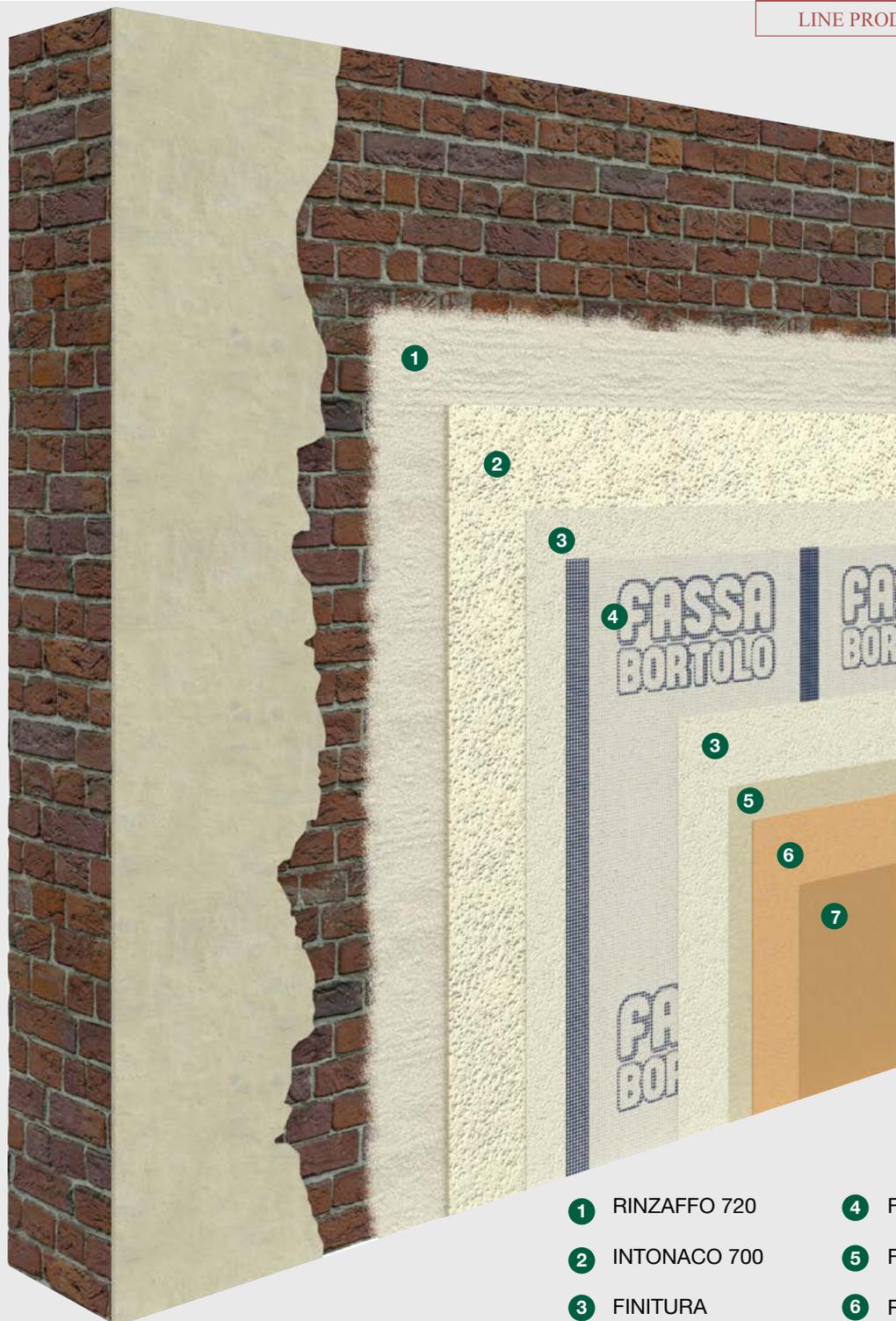


RENDERING ONTO BRICKWORK

Hydraulic lime cycle for dry walls

EX NOVO

LINE PRODUCTS



- | | | | |
|---|---|---|--------------|
| 1 | RINZAFFO 720 | 4 | FASSANET 160 |
| 2 | INTONACO 700 | 5 | FS 412 |
| 3 | FINITURA
IDROFUGATA 756/
FINITURA 750 | 6 | RSR 421 |
| | | 7 | SKIN 432 |

Natural hydraulic lime NHL 3.5 rendering cycle for brick walls with products from the EX NOVO line, which combine good mechanical strength and high breathability. The undercoat ensures uniform substrate absorption and improves adhesion of the base coat; the choice of a ready-to-use top coat ensures a wide variety of colours in different gradings; the siloxane protective finish gives the surface suitable water repellency.

- High breathability
 - Good mechanical strength
- Ready-to-use top coat in different gradings
 - Suitable water repellency

UNDERCOAT



RINZAFFO 720
Bio undercoat made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, for interiors and exteriors.

BASE COAT



INTONACO 700
Base coat bio-plaster and render made from natural hydraulic lime NHL 3.5.

FINISH COAT



FINITURA IDROFUGATA 756
Bio water repellent wall coating made from NHL 3.5 natural hydraulic lime for exteriors and interiors.

OR



FINITURA 750
Bio finish coat plaster and render made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, with marmorino effect.

+



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

PRIMER AND DECORATIVE COAT



FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.



SKIN 432
Protective siloxane finish for exteriors.

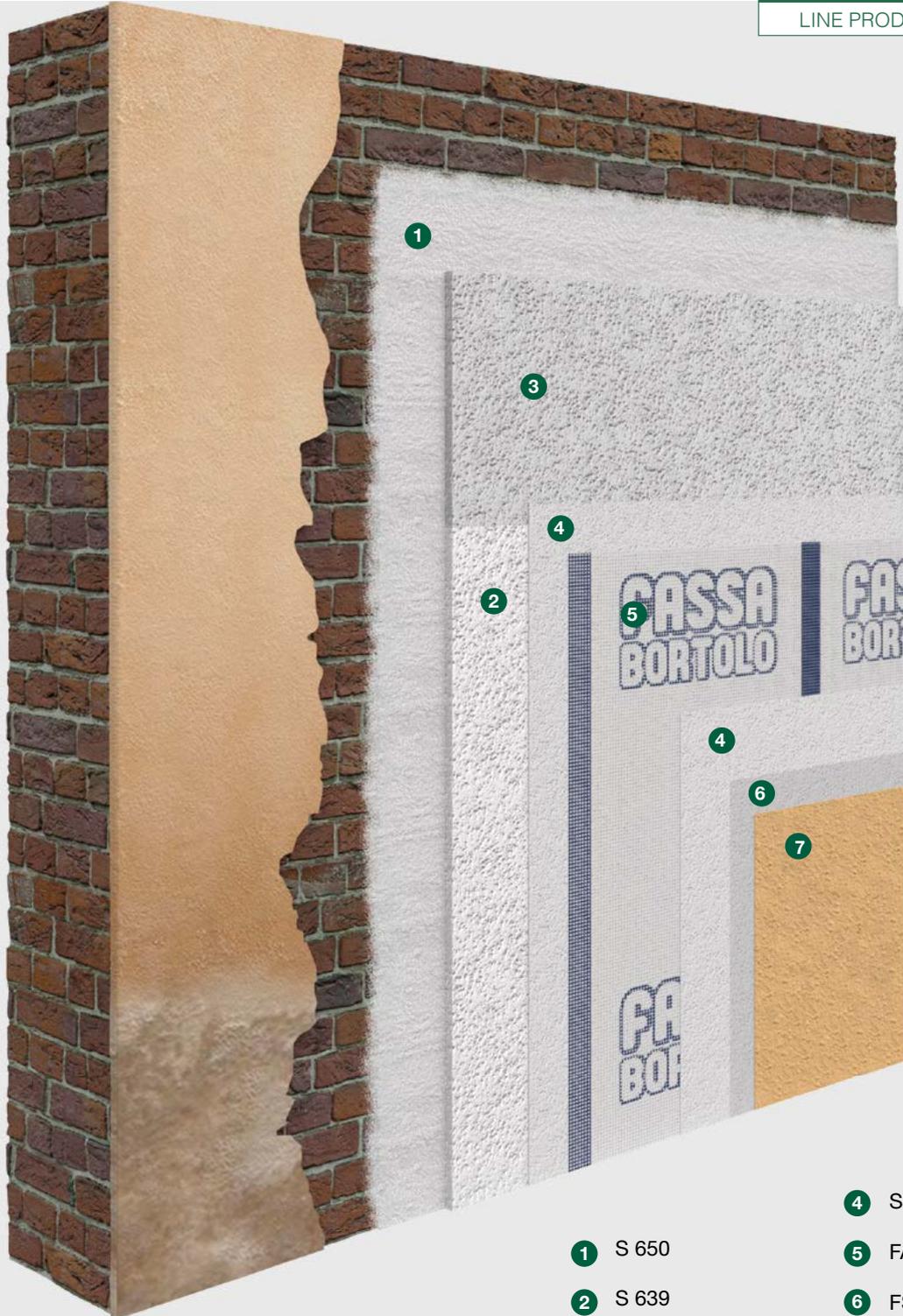


RENDERING ONTO BRICKWORK

*Hydrated lime cycle with textured finish,
for damp walls*

PURACALCE

LINE PRODUCTS



- 1 S 650
- 2 S 639
- 3 KB 13/K 1710

- 4 S 605
- 5 FASSANET 160
- 6 FS 412
- 7 RSR 421

Hydrated lime rendering cycle for brick walls affected by rising damp. The dehumidifying cycle involves application across the entire surface of a sulphate-resistant undercoat and a macroporous render, no less than 25 mm thick; the macropores inside the latter are able to contain more salts than traditional renders. The PURACALCE line products ensure high substrate breathability; the finish coat render, reinforced with alkali-resistant fibreglass mesh, reduces tensions and thus minimises the risk of hairline cracks forming. For a final rustic effect, the application cycle can be completed with a ready-to-use silicone finish coat render, available in different gradings and combining the highest water repellency and breathability values. Alternatively, the cycle can be completed using a silicone paint.

- High breathability and water repellency
- Rustic finish
- Dehumidifying cycle for damp walls

UNDERCOAT



S 650
Bio white undercoat for the restoration of damp masonry, for interiors and exteriors.

BASE COAT

DAMP AREA



S 639
Bio white plaster and render for the restoration of damp masonry, with marmorino effect.

OVER THE DAMP AREA



KB 13
Bio lime base coat plaster and render, with marmorino effect.

OR



K 1710
Bio traditional fibre-reinforced base coat plaster and render made from pure nano-lime with pozzolanic effect.

FINISH COAT



S 605
Bio white finish coat plaster and render for the restoration of damp masonry, with marmorino effect.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

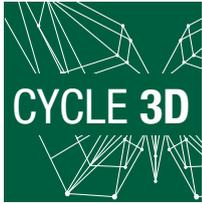
PRIMER AND DECORATIVE COAT



FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.



RENDERING ONTO BRICKWORK

Hydrated lime cycle with smooth finish, for damp walls

PURACALCE

LINE PRODUCTS



- | | | | |
|---|--------------|---|---------------|
| 1 | S 650 | 5 | FASSANET 160 |
| 2 | S 639 | 6 | LC7 BIOLISCIO |
| 3 | KB 13/K 1710 | 7 | FASSIL F 328 |
| 4 | S 605 | 8 | FASSIL P 313 |

Hydrated lime rendering cycle for brick walls affected by rising damp. The dehumidifying cycle involves application across the entire surface of a sulphate-resistant undercoat and a macroporous render, no less than 25 mm thick; the macropores inside the latter are able to contain more salts than traditional plasters or renders. The PURACALCE line products ensure high substrate breathability; the finish coat render, reinforced with alkali-resistant fibreglass mesh, reduces tensions in the substrate and thus minimises the risk of hairline cracks forming. To obtain a smooth finish and maintain breathability of the substrate, a hydrated lime mineral smooth coat can be used; this will then be protected by a mineral and breathable paint.

- High breathability and water repellency
- Dehumidifying cycle for damp walls
- Mineral finish
- Smooth effect

UNDERCOAT



S 650
Bio white undercoat for the restoration of damp masonry, for interiors and exteriors.

BASE COAT

DAMP AREA



S 639
Bio white plaster and render for the restoration of damp masonry, with marmorino effect.

OVER THE DAMP AREA



KB 13
Bio lime base coat plaster and render, with marmorino effect.

OR



K 1710
Bio traditional fibre-reinforced base coat plaster and render made from pure nano-lime with pozzolanic effect.

FINISH COAT



S 605
Bio white finish coat plaster and render for the restoration of damp masonry, with marmorino effect.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².



LC7 BIOLISCIO*
Smooth finish coat plaster and render, cement-free, made from lime and pozzolanic binders.

*Avoid using LC7 BIOLISCIO on masonry exposed to a high level of rising damp and a high concentration of soluble salts.

PRIMER AND DECORATIVE COAT



FASSIL F 328
Mineral primer for silicate cycles



FASSIL P 313
Smooth water-based silicate mineral paint for exteriors and interiors.

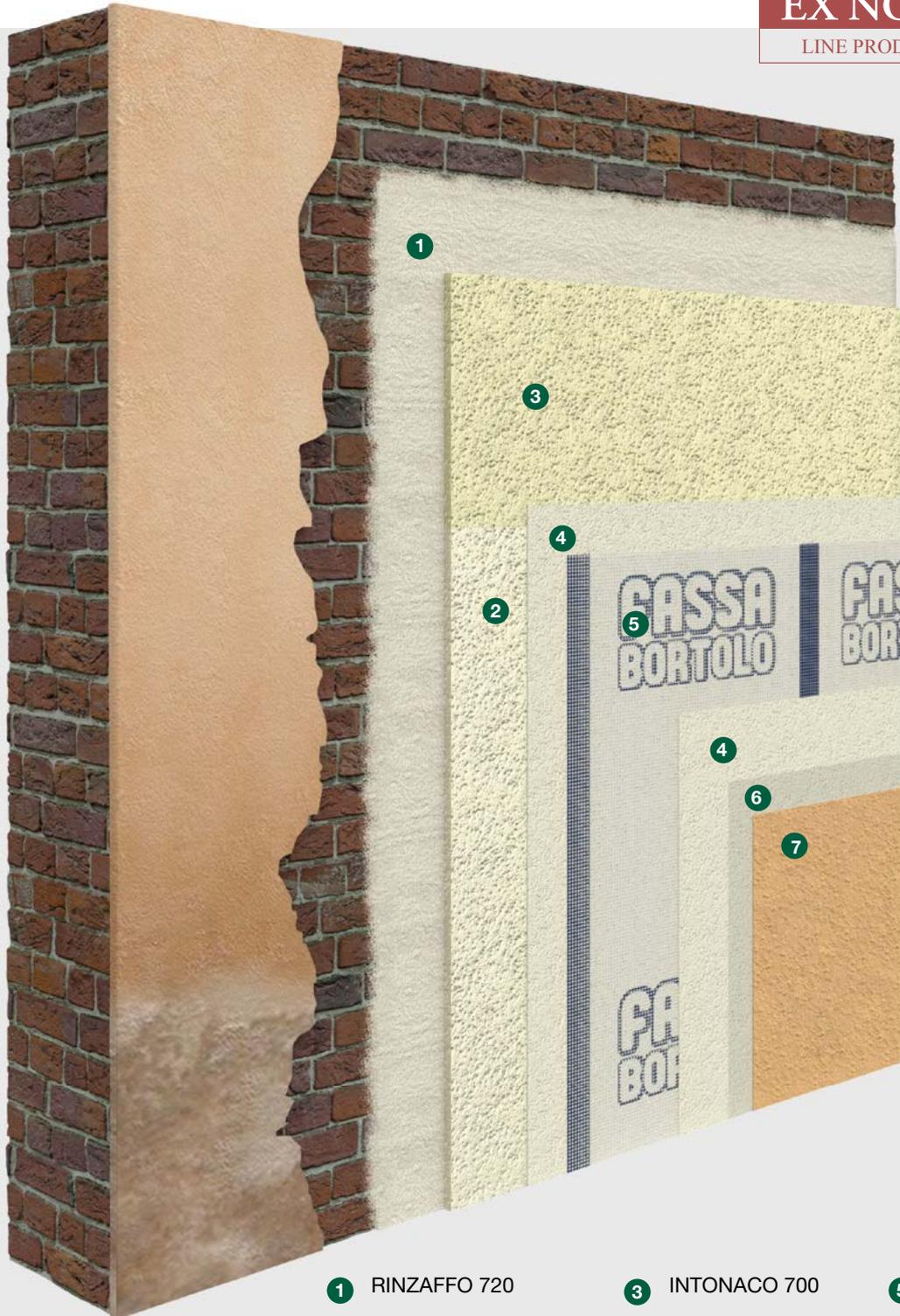


RENDERING ONTO BRICKWORK

Hydraulic lime cycle for damp walls

EX NOVO

LINE PRODUCTS



- | | | | | | |
|---|-----------------------------|---|---|---|--------------|
| 1 | RINZAFFO 720 | 3 | INTONACO 700 | 5 | FASSANET 160 |
| 2 | INTONACO
MACROPOROSO 717 | 4 | FINITURA
IDROFUGATA 756/
FINITURA 750 | 6 | FS 412 |
| | | | | 7 | RSR 421 |

Natural hydraulic lime rendering cycle for brick walls affected by rising damp. The dehumidifying cycle involves application across the entire surface of a sulphate-resistant undercoat and a macroporous render, no less than 25 mm thick; the macropores inside the latter are able to contain more salts than traditional plasters or renders. The EX NOVO line products combine good mechanical strength and high breathability, and are especially suitable for application on historic buildings; the finish coat render, reinforced with alkali-resistant fibreglass mesh, reduces tensions in the substrate and thus minimises the risk of hairline cracks forming, and is available in finer or coarser gradings, depending on the desired aesthetic effect. For a final rustic effect, the application cycle can be completed with a silicone finish coat render; the product, ready-to-use, is available in different gradings and colours, and combines the highest water repellency and breathability values. Alternatively, the cycle can be completed using a mineral paint.

- High breathability and water repellency
- Dehumidifying cycle for damp walls
- Good mechanical strength
- Rustic finish

UNDERCOAT



RINZAFFO 720
Bio undercoat made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, for interiors and exteriors.

BASE COAT

DAMP AREA



INTONACO MACROPOROSO 717
Bio base coat plaster and render made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry.

OVER THE DAMP AREA



INTONACO 700
Base coat bio-plaster and render made from natural hydraulic lime NHL 3.5.

FINISH COAT



FINITURA IDROFUGATA 756
Bio water repellent wall coating made from NHL 3.5 natural hydraulic lime for exteriors and interiors.

OR



FINITURA 750
Bio finish coat plaster and render made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, with marmorino effect.

+

*Finishes available in the following colours:

	Bianco		F 267
	G 201		C 223
	O 256		M 234
	R 212		

The colours reproduced are purely indicative and may vary for reasons due to printing, reproduction and conversion of the images; for these reasons, Fassa S.r.l. offers no guarantee whatsoever.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

PRIMER AND DECORATIVE COAT



FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.



RENDERING ONTO OLD STONES

Hydrated lime cycle for dry walls

PURACALCE

LINE PRODUCTS



1 S 650

2 KB 13/ K 1710

3 S 605

4 FASSANET 160

5 FS 412

6 RSR 421

7 SKIN 432

Hydrated lime rendering cycle for stone walls, using products from the PURACALCE line to give the substrate high breathability. The undercoat ensures uniform substrate absorption and improves adhesion of the base coat; the choice of a ready-to-use finish coat render ensures a wide variety of colours in different gradings; the siloxane protective finish gives the surface suitable water repellency.

- High breathability
- Ready-to-use finish coat render in different gradings
- Suitable water repellency

UNDERCOAT



S 650
Bio white undercoat for the restoration of damp masonry, for interiors and exteriors.

BASE COAT



KB 13
Bio lime base coat plaster and render, with marmorino effect.

OR



K 1710
Bio traditional fibre-reinforced base coat plaster and render made from pure nano-lime with pozzolanic effect.

FINISH COAT



S 605
Bio white finish coat plaster and render for the restoration of damp masonry, with marmorino effect.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

PRIMER AND DECORATIVE COAT



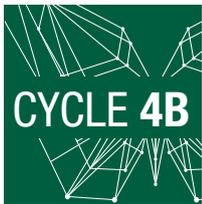
FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.



SKIN 432
Protective siloxane finish for exteriors.

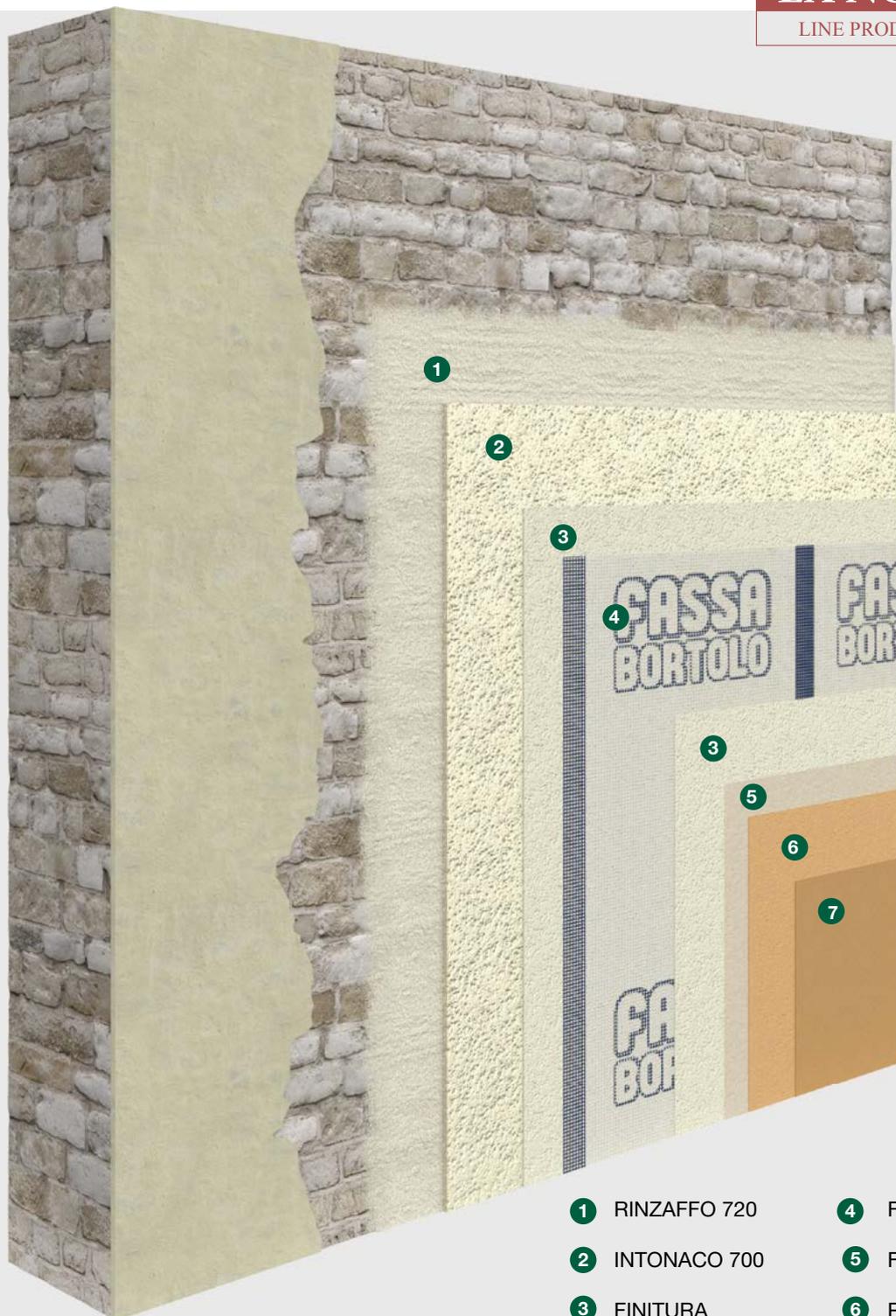


RENDERING ONTO OLD STONES

Hydraulic lime cycle for dry walls

EX NOVO

LINE PRODUCTS



- | | | | |
|---|---|---|--------------|
| 1 | RINZAFFO 720 | 4 | FASSANET 160 |
| 2 | INTONACO 700 | 5 | FS 412 |
| 3 | FINITURA
IDROFUGATA 756/
FINITURA 750 | 6 | RSR 421 |
| | | 7 | SKIN 432 |

Natural hydraulic lime NHL 3.5 rendering cycle for stone walls with products from the EX NOVO line, which combine good mechanical strength and high breathability.

The undercoat ensures uniform substrate absorption and improves adhesion of the base coat; the choice of a ready-to-use finish coat render ensures a wide variety of colours in different gradings; the siloxane protective finish gives the surface suitable water repellency.

- High breathability
- Good mechanical strength
- Ready-to-use finish coat render in different gradings
- Suitable water repellency

UNDERCOAT



RINZAFFO 720
Bio undercoat made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, for interiors and exteriors.

BASE COAT



INTONACO 700
Base coat bio-plaster and render made from natural hydraulic lime NHL 3.5.

FINISH COAT



FINITURA IDROFUGATA 756
Bio water repellent wall coating made from NHL 3.5 natural hydraulic lime for exteriors and interiors.

OR



FINITURA 750
Bio finish coat plaster and render made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, with marmorino effect.

+

*Finishes available in the following colours:

Bianco	F 267
G 201	C 223
O 256	M 234
R 212	

The colours reproduced are purely indicative and may vary for reasons due to printing, reproduction and conversion of the images; for these reasons, Fassa S.r.l. offers no guarantee whatsoever.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

PRIMER AND DECORATIVE COAT



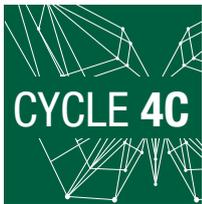
FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.



SKIN 432
Protective siloxane finish for exteriors.

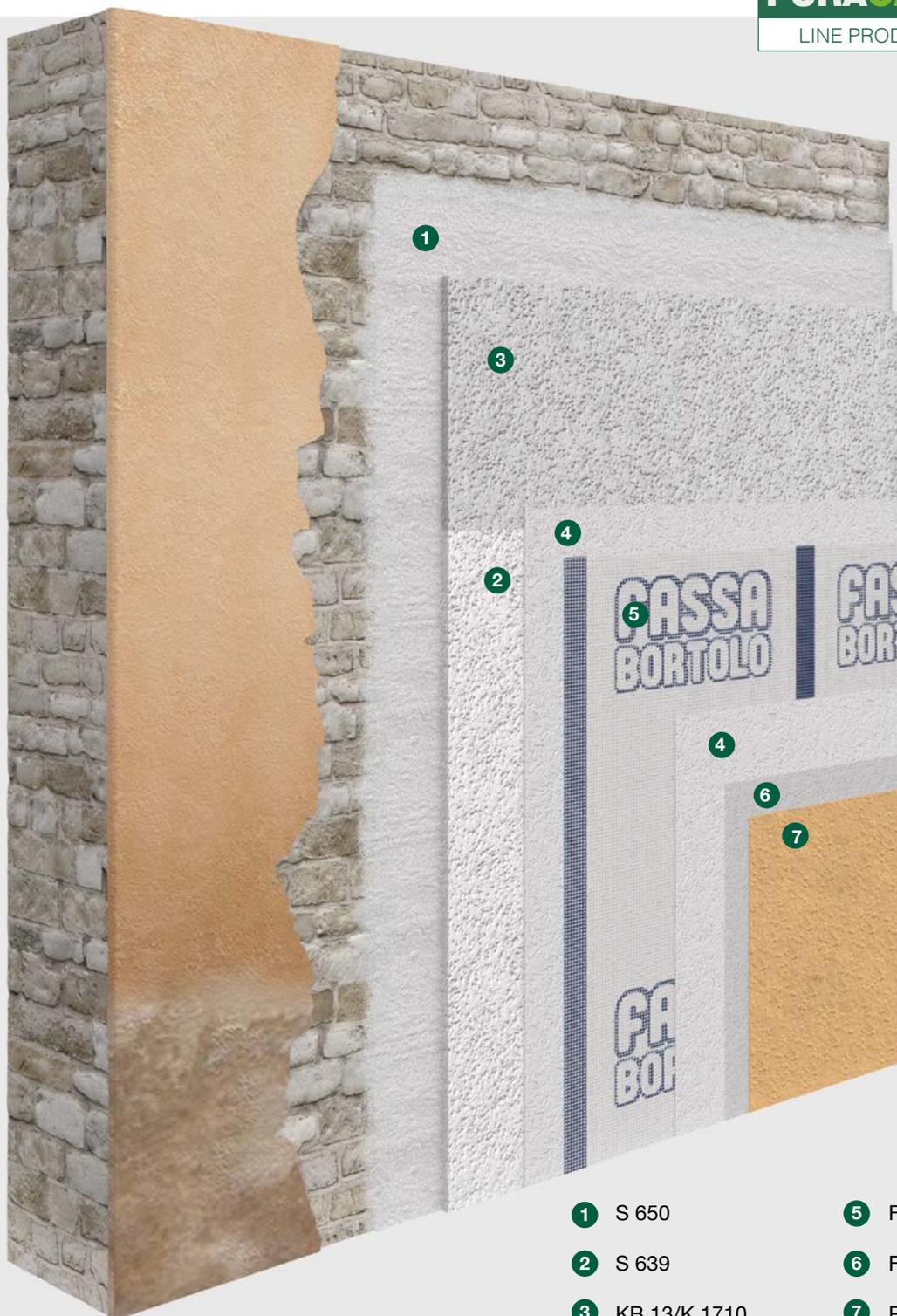


RENDERING ONTO OLD STONES

*Hydrated lime cycle with textured finish,
for damp walls*

PURACALCE

LINE PRODUCTS



- | | | | |
|---|--------------|---|--------------|
| 1 | S 650 | 5 | FASSANET 160 |
| 2 | S 639 | 6 | FS 412 |
| 3 | KB 13/K 1710 | 7 | RSR 421 |
| 4 | S 605 | | |

Hydrated lime dehumidifying rendering cycle for stone walls affected by rising damp. The dehumidifying cycle involves application across the entire surface of a sulphate-resistant undercoat and a macroporous render, no less than 25 mm thick; the macropores inside the latter are able to contain more salts than traditional plasters or renders.

The PURACALCE line products ensure high substrate breathability; the finish coat render, reinforced with alkali-resistant fibreglass mesh, reduces tensions and thus minimises the risk of hairline cracks forming. For a final rustic effect, the application cycle can be completed with a ready-to-use silicone finish coat render, available in different gradings and combining the highest water repellency and breathability values. Alternatively, the cycle can be completed using a mineral paint.

- High breathability and water repellency
- Rustic finish
- Dehumidifying cycle for damp walls

UNDERCOAT



S 650
Bio white undercoat for the restoration of damp masonry, for interiors and exteriors.

BASE COAT

DAMP AREA



S 639
Bio white plaster and render for the restoration of damp masonry, with marmorino effect.

OVER THE DAMP AREA



KB 13
Bio lime base coat plaster and render, with marmorino effect.

OR



K 1710
Bio traditional fibre-reinforced base coat plaster and render made from pure nano-lime with pozzolanic effect.

FINISH COAT



S 605
Bio white finish coat plaster and render for the restoration of damp masonry, with marmorino effect.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

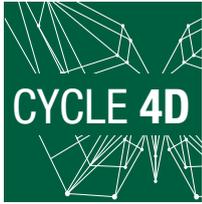
PRIMER AND DECORATIVE COAT



FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.



RENDERING ONTO OLD STONES

*Hydrated lime cycle with smooth finish,
for damp walls*

PURACALCE

LINE PRODUCTS



- | | | | |
|---|--------------|---|---------------|
| 1 | S 650 | 5 | FASSANET 160 |
| 2 | S 639 | 6 | LC7 BIOLISCIO |
| 3 | KB 13/K 1710 | 7 | FASSIL F 328 |
| 4 | S 605 | 8 | FASSIL P 313 |

Hydrated lime dehumidifying rendering cycle for stone walls affected by rising damp. The dehumidifying cycle involves application across the entire surface of a sulphate-resistant undercoat and a macroporous render, no less than 25 mm thick; the macropores inside the latter are able to contain more salts than traditional renders. The PURACALCE line products ensure high substrate breathability; the finish coat render, reinforced with alkali-resistant fibreglass mesh, reduces tensions in the substrate and thus minimises the risk of hairline cracks forming. To obtain a smooth finish and maintain breathability of the substrate, a hydrated lime mineral smooth coat can be used; this will then be protected by a mineral and breathable paint.

- High breathability and water repellency
- Dehumidifying cycle for damp walls
- Mineral finish
- Smooth effect

UNDERCOAT



S 650
Bio white undercoat for the restoration of damp masonry, for interiors and exteriors.

BASE COAT

DAMP AREA



S 639
Bio white plaster and render for the restoration of damp masonry, with marmorino effect.

OVER THE DAMP AREA



KB 13
Bio lime base coat plaster and render, with marmorino effect.

OR



K 1710
Bio traditional fibre-reinforced base coat plaster and render made from pure nano-lime with pozzolanic effect.

FINISH COAT



S 605
Bio white finish coat plaster and render for the restoration of damp masonry, with marmorino effect.

+



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².



LC7 BIOLISCIO*
Smooth finish coat plaster and render, cement-free, made from lime and pozzolanic binders.

*Avoid using LC7 BIOLISCIO on masonry exposed to a high level of rising damp and a high concentration of soluble salts.

PRIMER AND DECORATIVE COAT



FASSIL F 328
Mineral primer for silicate cycles



FASSIL P 313
Smooth water-based silicate mineral paint for exteriors and interiors.



RENDERING ONTO OLD STONES

Hydraulic lime cycle for damp walls

EX NOVO

LINE PRODUCTS



1 RINZAFFO 720

2 INTONACO
MACROPOROSO 717

3 INTONACO 700

4 FINITURA
IDROFUGATA 756/
FINITURA 750

5 FASSANET 160

6 FS 412

7 RSR 421

Natural hydraulic lime NHL 3.5 dehumidifying rendering cycle for stone walls affected by rising damp. The dehumidifying cycle involves application across the entire surface of a sulphate-resistant undercoat and a macroporous render, no less than 25 mm thick; the macropores inside the latter are able to contain more salts than traditional plasters or renders. The EX NOVO line products combine good mechanical strength and high breathability, and are especially suitable for application on historic buildings; the finish coat render, reinforced with alkali-resistant fibreglass mesh, reduces tensions in the substrate and thus minimises the risk of hairline cracks forming, and is available in finer or coarser gradings, depending on the desired aesthetic effect. For a rustic finish, the application cycle can be completed with a silicone finish coat render; the product, ready-to-use, is available in different gradings and combines the highest water repellency and breathability values. Alternatively, the cycle can be completed using a mineral paint.

- High breathability and water repellency
- Dehumidifying cycle for damp walls
- Good mechanical strength
- Rustic finish

UNDERCOAT



RINZAFFO 720
Bio undercoat made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, for interiors and exteriors.

BASE COAT

DAMP AREA



INTONACO MACROPOROSO 717
Bio base coat plaster and render made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry.

OVER THE DAMP AREA



INTONACO 700
Base coat bio-plaster and render made from natural hydraulic lime NHL 3.5.

FINISH COAT



FINITURA IDROFUGATA 756
Bio water repellent wall coating made from NHL 3.5 natural hydraulic lime for exteriors and interiors.

OR



FINITURA 750
Bio finish coat plaster and render made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, with marmorino effect.

+

*Finishes available in the following colours:

Bianco	F 267
G 201	C 223
O 256	M 234
R 212	

The colours reproduced are purely indicative and may vary for reasons due to printing, reproduction and conversion of the images; for these reasons, Fassa S.r.l. offers no guarantee whatsoever.



FASSANET 160
Alkali-resistant fibreglass reinforcing mesh, 160 g/m².

PRIMER AND DECORATIVE COAT

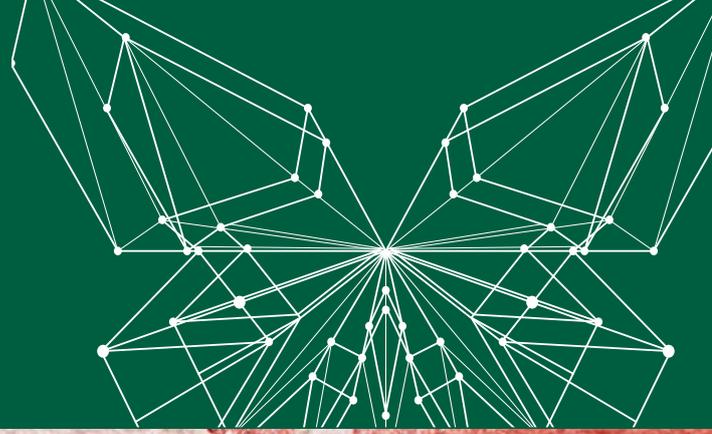


FS 412
Primer for silicone resin coating cycles for exteriors.



RSR 421
Compact, fibre-reinforced and siloxane-enhanced coating for exteriors.

PRODUCTS



PRODUCTS

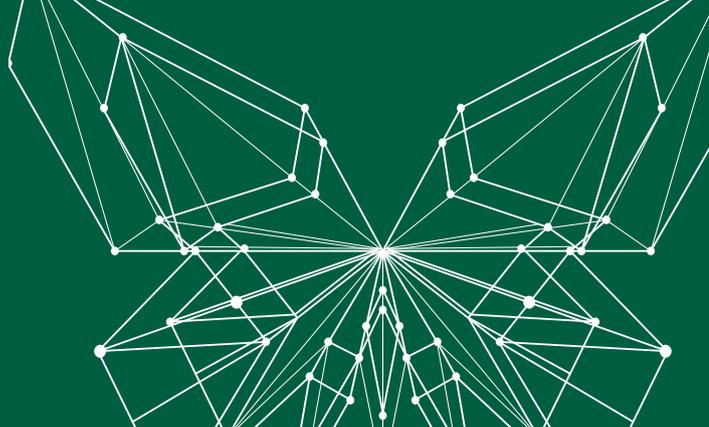
RENDERS

KB 13	52
K 1710	52
S 650	53
S 639	53
S 605	54
LC7 BIOLISCIO	54
RM 200	55
RINZAFFO 720	55
INTONACO 700	56
INTONACO MACROPOROSO 717	56
FINITURA 750	57
FINITURA IDROFUGATA 756	57
FASSANET 160	58

PRIMER AND DECORATIVE COAT

FX 526	59
FS 412	59
FASSIL F 328	60
SKIN 432	60
FASSIL P 313	61
RSR 421	61

PEOPLE-FRIENDLY BUILDING PRODUCTS

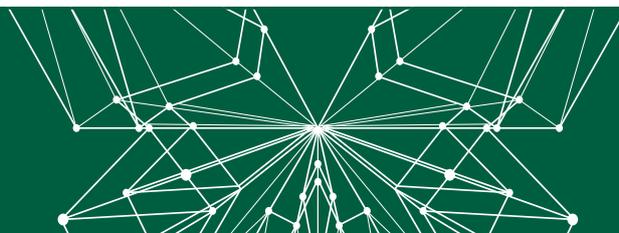


The extraction of the raw material and their processing, thanks to the expertise of Fassa Research and Development, gives rise to important product lines that, in a context of sustainability, guarantee high performance during use and extensive application flexibility, meeting even the most complex construction requirements.

PURACALCE® line

Environmentally-friendly products made from Italian air lime, a 100% natural raw material used since ancient times. This solution features high porosity and breathability which, by regulating temperature and humidity, create a **healthier and more comfortable environment**.

PURACALCE® includes **bio traditional products** (mortar, plasters and renders), **bio restoration products** (undercoats, plasters and renders), **white and coloured bio wall coatings** with different gradings and **bio finishes** (plaster, renders and stuccos). An effective response for restoring damp walls and making any dwelling healthier and more liveable, whether new or reconstructed and renovated buildings. They feature very high purity, with important benefits such as **plastic consistency** and a **low modulus of elasticity**: these features reduce the risk of micro-cracks forming compared to cement-based products, which by nature are more rigid. Other benefits include **good workability** and **ease of application**. The entire PURACALCE® line also stands out for its **high permeability to water vapour** and its **good moisture-absorbing capacity**, due to its high porosity.



EX NOVO® Bio Historic Preservation line

These **products are made using NHL 3.5 natural hydraulic lime**, and include mortars for consolidating masonry to solutions for the restoration of damp masonry and structural consolidation.

They have been developed for the preservation of old buildings, with the research conducted in the Fassa I-Lab - the Fassa Bortolo Research Centre - having led to the creation of even higher-performance materials. These are new materials, yet with their roots in the history of architecture. Solutions that are compatible both with materials and construction techniques of the existing built heritage, and with the current requirements of eco-compatibility and environmental protection.

Modern plasters and renders are attacked by atmospheric elements with an intensity that cannot be compared to the past. And compared to the past, the methods for selecting, processing and applying products have also changed profoundly. That's why this line is strongly focused on preserving the past, while at the same time safeguarding the future.



KB 13

Bio lime base coat plaster and render, with marmorino effect



KB 13 is a dry mortar composed of natural lime, hydraulic binder, crushed marble and graded limestone sand. KB 13 is used as a base coat plaster/render on walls made of bricks, concrete blocks, rough concrete etc. For special underlays you need to follow the instructions of the supplier.

Grading	< 1.5 mm
Yield	approx. 13 kg/m ² with 10 mm thickness
Minimum thickness	10 mm
Specific weight of the powder	approx. 1,400 kg/m ³
Compressive strength after 28 days (EN 1015-11)	approx. 2.5 N/mm ²
Water vapour diffusion resistance factor (EN 1015-19)	$\mu \leq 8$ (measured value)
Supply	Special sacks with protection against moisture, approx. 25 kg



K 1710

Bio traditional fibre-reinforced base coat plaster and render made from pure nano-lime with pozzolanic effect



K 1710 is used as a base coat plaster/render on old and new walls made from stone, bricks, tuff, etc. The elasticity of the plaster and its fibre content mean it can also be used, in accordance with the instructions shown in the material data sheet, on mechanically weak substrates, such as masonry made of stones and/or bricks (restoration works in general).

Grading	< 3 mm
Yield	approx. 14.5 kg/m ² with 10 mm thickness
Specific weight of the powder	approx. 1,400 kg/m ³
Minimum thickness	10 mm
Compressive strength after 28 days (EN 1015-11)	approx. 2.5 N/mm ²
Supply	Special sacks with protection against moisture, approx. 25 kg



S 650

Bio white undercoat for the restoration of damp masonry, for interiors and exteriors



S 650 is a white dry mortar made from natural lime, sulphate-resistant hydraulic binder and graded limestone sands. S 650 is used as a renovation undercoat for damp walls to promote the adhesion of the renovation plaster S 639 to the wall, by enhancing the anti-saline action of the latter.

Grading	< 3 mm
Yield	approx. 3-5 kg/m ²
Thickness	4-5 mm
Compressive strength after 28 days (EN 1015-11)	11 N/mm ² (CSIV: > 6 N/mm ²)
Water vapour diffusion resistance factor (EN 1015-19)	$\mu \leq 15$ (measured value)
Supply	Special sacks with protection against moisture, approx. 25 kg

S 639

Bio white plaster and render for the restoration of damp masonry, with marmorino effect



S 639 is a dry white plaster/render made from natural lime, sulphate-resistant hydraulic binder, marble powder, graded sands, water-repellent material and specific additives designed to improve workability, adhesion and breathability. S 639 is used as a base coat plaster/render with application by hand or machine for the restoration of damp masonry.

Grading	< 3 mm
Yield	approx. 11.5 kg/m ² with 10 mm thickness
Minimum thickness	20 mm
Compressive strength after 28 days (EN 1015-11)	approx. 3.5 N/mm ²
Supply	Special sacks with protection against moisture, approx. 25 kg

S 605

Bio white finish coat plaster and render for the restoration of damp masonry, with marmorino effect



S 605 is used as a breathable finish coat plaster/render with marmorino effect. It can be used as a finish coat plaster/render, completing renovation cycles on masonry subject to rising damp.

Grading	< 0.6 mm
Yield	approx. 1.4 kg/m ² per mm in thickness
Specific weight of the powder	approx. 1,300 kg/m ³
Compressive strength after 28 days (EN 1015-11)	approx. 2.5 N/mm ²
Modulus of elasticity after 28 days	approx. 3,500 N/mm ²
Water vapour diffusion resistance factor (EN 1015-19)	$\mu \leq 12$ (measured value)
Supply	Special sacks with protection against moisture, approx. 25 kg



LC7 BIOLISCIO

Smooth finish coat plaster and render, cement-free, made from lime and pozzolanic binders



LC7 BIOLISCIO is a premixed mortar in powder form made from lime, pozzolanic binders and very fine natural aggregate. LC7 BIOLISCIO is used for smooth finishing of interior and exterior plastered surfaces. It can also be used to complete dehumidifying plastering cycles, exploiting the principle of macroporosity. It is particularly suitable for air lime (PURACALCE) and natural hydraulic lime plasters (EX NOVO) and in all cases where high breathability is required.

Yield	0.7-0.9 kg/m ² per mm in thickness, depending on the substrate
Maximum aggregate size	150 μm
Water vapour permeability coefficient (EN 1015-19)	$\mu \leq 8$
Supply	Special sacks with protection against moisture, approx. 20 kg



RM 200

Bio white mineral-based wall coating for exteriors and interiors



RM 200 is a special wall coating made from natural lime, hydraulic binder, superior graded sands, water repellent material and special additives to improve workability and adhesion. The nature of the raw materials used makes the masonry wall perfectly breathable.

RM 200 is used as decorative plaster/render for exteriors and interiors.

Grading	≤ 2 mm
Yield	approx. 3.3 kg/m ² per layer
Compressive strength after 28 days (EN 1015-11)	CSII
Water vapour diffusion resistance factor (EN 1015-19)	μ ≤ 14 (measured value)
Supply	Special sacks with protection against moisture, approx. 25 kg



RINZAFFO 720

Bio undercoat made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, for interiors and exteriors



RINZAFFO 720 is used as an undercoat for the restoration of damp masonry, assisting the action of INTONACO MACROPOROSO 717 render against rising damp. The product moreover assists the adhesion of hydraulic lime plasters, such as INTONACO 700, to masonry.

Yield	approx. 3-5 kg/m ²
Aggregate grading	< 3 mm
Specific weight of the powder	approx. 1,400 kg/m ³
Thickness	4-5 mm
Water vapour diffusion resistance factor (EN 1015-19)	μ ≤ 15 (measured value)
Supply	Special sacks with protection against moisture, approx. 25 kg



INTONACO 700

Base coat bio-plaster and render made from natural hydraulic lime NHL 3.5



INTONACO 700 is a dry mortar composed of NHL 3.5 natural hydraulic lime, crushed marble and graded limestone sands.

INTONACO 700 is used as a base coat plaster/render to be applied by hand or machine on new and old brick and/or stone masonry.

Yield	approx. 13 kg/m ² with 10 mm thickness
Specific weight of the powder	approx. 1,450 kg/m ³
Minimum thickness	10 mm
Compressive strength after 28 days (EN 1015-11)	approx. 2.5 N/mm ²
Modulus of elasticity after 28 days	2,500 N/mm ²
Supply	Special sacks with protection against moisture, approx. 25 kg



INTONACO MACROPOROSO 717

Bio base coat plaster and render made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry



INTONACO MACROPOROSO 717 is used as a base coat plaster/render with application by hand or machine for the restoration of damp masonry.

Yield	approx. 11.5 kg/m ² per cm in thickness
Aggregate grading	< 3 mm
Minimum thickness	20 mm
Water vapour diffusion resistance factor (EN 1015-19)	$\mu \leq 8$ (measured value)
Supply	Special sacks with protection against moisture, approx. 25 kg



FINITURA 750

Bio finish coat plaster and render made from NHL 3.5 natural hydraulic lime for the restoration of damp masonry, with marmorino effect.



FINITURA 750 is used as a finish coat plaster/render with marmorino effect. It can be used as a finish coat plaster/render, completing renovation cycles on masonry subject to rising damp.

Yield	approx. 1.4 kg/m ² per mm in thickness
Aggregate grading	< 0.6 mm
Specific weight of the powder	approx. 1,300 kg/m ³
Water vapour diffusion resistance factor (EN 1015-19)	$\mu \leq 12$ (measured value)
Supply	Special sacks with protection against moisture, approx. 25 kg
Available colours	White
	M 234
	G 201
	C 223
	O 256
	F 267
	R 212

The colours reproduced are purely indicative and may vary for reasons due to printing, reproduction and conversion of the images; for these reasons, Fassa S.r.l. offers no guarantee whatsoever.



FINITURA IDROFUGATA 756

Bio water repellent wall coating made from NHL 3.5 natural hydraulic lime for exteriors and interiors



FINITURA IDROFUGATA 756 is a special water-repellent, sulphate-resistant wall coating, made of NHL 3.5 natural hydraulic lime and superior graded sands. The nature of the raw materials used makes the masonry wall perfectly breathable. FINITURA IDROFUGATA 756 is used as a protective and decorative coating for interiors and exteriors on base coat plasters/renders with a hydraulic lime base, such as INTONACO 700 and INTONACO MACROPOROSO 717.

Yield	approx. 2 kg/m ²
Aggregate grading	≤ 1 mm
Density of hardened plaster (EN 1015-10)	approx. 1,500 kg/m ³
Compressive strength after 28 days (EN 1015-11)	CSII
Supply	Special sacks with protection against moisture, approx. 25 kg



FASSANET 160

Alkali-resistant fibreglass reinforcing mesh,
160 g/m²

FASSANET 160 is a product made from the weaving of high quality fibreglass yarns, which then undergoes special treatment with impregnation to make the mesh alkali-resistant.

FASSANET 160 must be used to reinforce skim-coats applied on plasters or on thermal insulation panels before applying the finishing coat.



Fibreglass	80%
Mass per unit area (alkali-resistant mesh)	157 g/m ² ± 5%
Supply	50 m rolls, 1 m wide



FX 526

Universal pigmented primer undercoat for interiors and exteriors



FX 526 is a pigmented undercoat made from special copolymers in aqueous emulsion, graded aggregate, titanium dioxide, pigments and specific additives to improve adhesion and application.

FX 526 is used in interiors and exteriors as a filling primer-undercoat that, thanks to its hiding power and levelling properties, creates a coloured, uniform surface. It is used on lime and lime-cement finish coat and skim coat plasters and renders before applying water-based coatings, such as RTA 549, RSR 421, RX 561 and water-based paints. The fine aggregate used improves anchoring of the finish both on external thermal insulation composite systems and on already painted masonry substrates.

Grading	approx. 0.2 mm
Dilution	(with water) approx. 5%
Specific weight	approx. 1.61 kg/l
Consumption (**)	from 200 to 250 g/m ² (from 0.12-0.16 l/m ²) per layer
Yield (**)	6-8 m ² /l per layer
Supply	Buckets of approx. 5 and 14 l Tints: a selection from our 365 A YEAR OF COLORS swatchbook

(**) The consumption and yield values refer to the white product applied on smooth substrates of average absorbance; these should be verified by preliminary tests on the specific substrate, in relation to the chosen colour.



FS 412

Primer for silicone resin coating cycles for exteriors



FS 412 is a primer made from acrylic copolymers in aqueous emulsion enriched with special water-based polysiloxanes. FS 412 is used as an insulating or stabilising primer on lime-cement plasters and renders before applying the HYDROSILICONE SYSTEM finish products, without modifying the breathability of the substrate.

Yield (**)	approx. 7-9 m ² /l
Consumption (**)	approx. 100-150 g/m ²
Specific weight (EN ISO 2811-1)	approx. 1 kg/l
Supply	Containers of approx. 16 l

(**) The consumption and yield values refer to the product applied on smooth substrates of average absorbance; these should be verified by preliminary tests on the specific substrate.



FASSIL F 328

Mineral primer for silicate cycles



FASSIL F 328 is a mineral primer with strong penetrating power made from stabilised potassium silicate and special organic binders compatible with all lime-cement plaster.

It is used as insulator, primer or stabiliser before applying the finishing products of the SILICATE SYSTEM, both paints and finish coat plasters. The product regulates the absorption capacity of the surface and guarantees adhesion of finishing coats, especially on crumbling plaster, without reducing the breathability of the masonry.

Yield (**)	approx. 7-9 m ² /l
Consumption (**)	approx. 100-150 g/m ² (0.10-0.15 l/m ²)
Specific weight (EN ISO 2811-1)	approx. 1 kg/l
Supply	Buckets of approx. 16 l

(**) The consumption and yield values refer to the product applied on smooth substrates of average absorbance; these should be verified by preliminary tests on the specific substrate.



SKIN 432

Protective siloxane finish for exteriors



SKIN 432 is a water-based paint made from the latest generation organic copolymers and enriched with special siloxane resins in aqueous emulsion, graded aggregates, titanium dioxide, pigments and specific additives to improve application and give the product higher broad-spectrum protection against the growth of algae and mould species.

SKIN 432 is used as a high-performance protective and decorative paint for exteriors, white or coloured, on both new and existing lime, lime-cement finish coat renders, concrete, etc.

Yield (**)	4-5 m ² /l for finished work (2 layers)
Consumption (**)	150-200 g/m ² (0.10-0.13 l/m ²) per layer
Specific weight (EN ISO 2811-1)	approx. 1.52-1.56 kg/l (depending on the base colour)
Supply	Containers of approx. 14 l Tints: a selection from our 365 A YEAR OF COLORS swatchbook

(**) The values refer to white product applied on smooth substrates of average absorbance; these should be verified by preliminary tests on the specific substrate, in relation to the chosen colour.



FASSIL P 313

Smooth water-based silicate mineral paint for exteriors and interiors



FASSIL P 313 is a water-based paint made from stabilised hydrophobic potassium silicate and special water-based organic binders with very high breathability, graded aggregates, titanium dioxide and specific additives to improve applicability and workability.

FASSIL P 313 is used as a protective and decorative, white and coloured paint on exterior and interior finish coat plasters. The nature of the raw materials used ensures suitable protection of the base coat renders maintaining the breathability of the masonry.

Yield (**)	approx. 3.5-4.5 m ² /l for finished work (2 layers)
Consumption (**)	approx. 160-200 g/m ² (0.11-0.14 l/m ²) per layer
Specific weight (EN ISO 2811-1)	approx. 1.47 kg/l
Supply	Containers of approx. 5 and 14 l Tints: a selection from our 365 A YEAR OF COLORS swatchbook

(**) The consumption and yield values refer to the white product applied on smooth substrates of average absorbance; these should be verified by preliminary tests on the specific substrate, in relation to the chosen colour.



RSR 421

Fibre reinforced and compacted coating boasted with siloxanes



**UK
CA**



RSR 421 is a finish coat paste for exteriors made from special water-based siloxane binders and organic binders in aqueous emulsion, which together provide breathability, water repellency and excellent weather resistance. Special molecules also provide the product broad-spectrum protection against algae and mould species.

RSR 421 is used as a protective and decorative coating, white and coloured, on lime-cement base coatings for exteriors, including in dehumidifying cycles and on external thermal insulation composite systems, especially where both high breathability and low water absorption are needed.

Gradings*	0.6 - 1 - 1.5 - 2 mm
Specific weight	1.70-1.90 kg/l
Supply	Containers of approx. 25 kg Tints: a selection from our 365 A YEAR OF COLORS swatchbook

* ETA and BBA certificates available for the gradings 1, 1.5 and 2 mm only.



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DEP348UKA_04/2023

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