



ALCHIMICA[®]
BUILDING CHEMICALS

THE WORLD'S MOST TRUSTED BUILDING CHEMICALS



Profile

ALCHIMICA is the leading independent manufacturer in Europe, and among the top 4 global manufacturers of single component polyurethane waterproofing products.

The company specializes in the development and production of building chemicals and raw materials for construction and industrial applications.

The company maintains 5 production sites in Europe, a multistorey headquarters building and a renovated and expanded R&D technology center.





For over 35 years, ALCHIMICA's mission has been and continues to be innovation. We create, produce and supply high quality building chemicals that add value to our partners' work and the global building chemicals market.

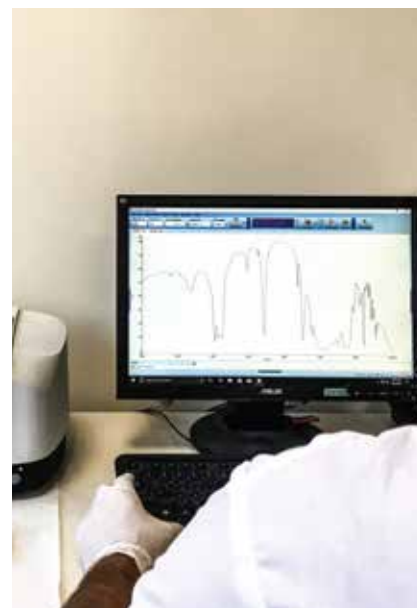
ALCHIMICA's innovative heritage is displayed by products as the revolutionary polyurethane based HYPERDESMO[®] invented in 1983, and HYPERDESMO[®]-PB, which upon release in 2004 immediately became the industry standard by efficiently and competitively incorporating bitumen extended polyurethane technology. Aligned with its innate drive for innovation, in 2011 ALCHIMICA introduced the AQUASMART[®] system, a waterborne polyurethane system that became the first of its kind to achieve a CE certification for an expected working life of 25 years (W3).

By heavily investing in Research and Development, we continuously introduce new technologies to the global market, and thus we continually carve new paths that create new opportunities for our company and most importantly, for our partners within the construction industry.

The company, besides several individual product certifications, holds ISO 9001:2015, ISO 14001:2015 and OHSAS 45001:2018 certifications.



Our network of reach extends to more than 100 countries worldwide. It includes dynamic commercial dealers, construction companies, applicators, consultants and producers of building materials. Our partners are embraced and supported by a company that aligns its best interest with theirs. We at ALCHIMICA S.A. firmly believe in the competence and competitiveness of all of our products and systems being the examples of our ceaseless efforts, our technical abilities and our exceptional innovative heritage.



Seamless Polyurethane Waterproofing

The construction and roofing industry has always faced the challenge of finding economic, timesaving and durable waterproofing systems.

Roofs, whether flat or inclined, are subject to all kinds of physical phenomena. Water, UV, acid rain resistance as well as the ability to withstand long term thermal cycling are the main factors that determine the durability of many types of coatings.

These factors are extremely detrimental for coatings used on flat and low slope roofs, as these roofs are traditionally challenged by stagnating water. Furthermore, additional waterproofing problems occur in roofs with complex shapes and installations such as air conditioning units, pipe supports, antennas and solar heaters, due to the limitations of traditional waterproofing systems.

ALCHIMICA's waterproofing systems are designed to face and surpass these challenges, achieving high waterproofing performance and durability under all kinds of environmental conditions. ALCHIMICA's liquid applied membranes ensure seamless application over several types of substrates and complex roof installations that require precise and detailed application.

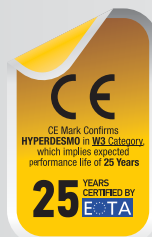
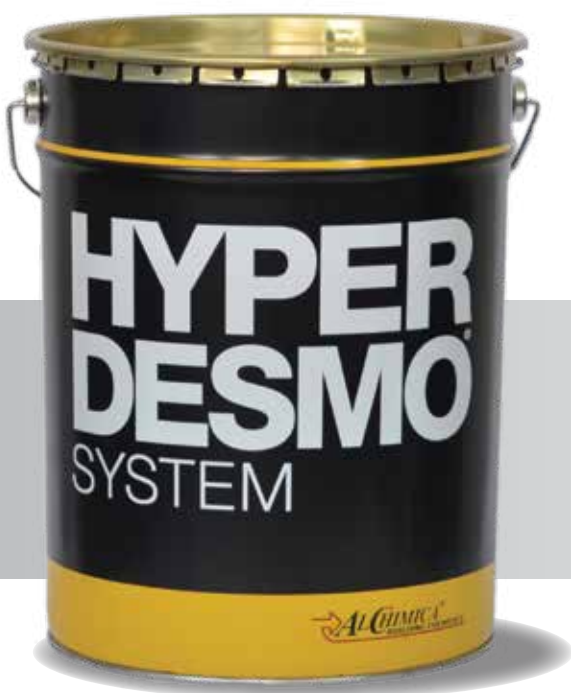


HYPERDESMO®

ALCHIMICA's HYPERDESMO® product range consists of one or two component polyurethane liquid membranes. It is a high quality, refined, yet economic system for waterproofing and protection. It incorporates a wide range of properties, being a low viscosity, polyurethane liquid that cures using the atmosphere's humidity to produce a highly elastic membrane with strong adhesion to many types of surfaces.

All products are based on pure elastomeric hydrophobic polyurethane resins with added special inorganic fillers that result in excellent mechanical, chemical, thermal, UV and natural element resistance properties.

HYPERDESMO® being the industry standard for 35 years, has been certified by the European Organization for Technical Assessment (EOTA) for a 25 year good working performance (W3). It is the only PU liquid membrane in the world that has achieved this classification at such a low film thickness of 1.2 mm without any reinforcement.



HYPERDESMO® Projects

Applications of HYPERDESMO® span from simple flat roof waterproofing, to complex architectural structures, stadium stands, bridge decks, car parks as well as under tile waterproofing in wet rooms and verandas. A very wide range of ALCHIMICA's primers is provided, to secure the excellent adhesion of HYPERDESMO® products to any kind of substrate.



HYPERDESMO®-PB-2K

HYPERDESMO®-PB-2K is a fast-curing, 1:1 by volume two component, bitumen-extended polyurethane liquid membrane. It is the industry standard for almost 15 years, a most competitive product that displays exceptional properties which efficiently combine the traditional benefits of bitumen with ALCHIMICA's polyurethane technology. After curing, it produces a uniform, defect free membrane regardless of temperature and humidity. Its humidity barrier properties, its self healing ability and its certified anti-root performance make it an excellent solution for use in foundation walls, retaining walls, roofing and under tiles waterproofing. Its very high elongation (>2000%) provides the product with outstanding crack bridging capabilities.

HYPERDESMO®-PB-2K has been certified by the European Organization for Technical Assessment (EOTA) for an expected working life of 25 years (W3).



HYPERDESMO®-PB Projects

HYPERDESMO®-PB products are very diverse and can be used in a multitude of applications.

These applications include non-exposed flat roof waterproofing, foundations and retaining walls, basements, under tiles in wet rooms and verandas.

Furthermore, they can be used as joint sealers, in underground car parking areas and in cut and cover tunnels.



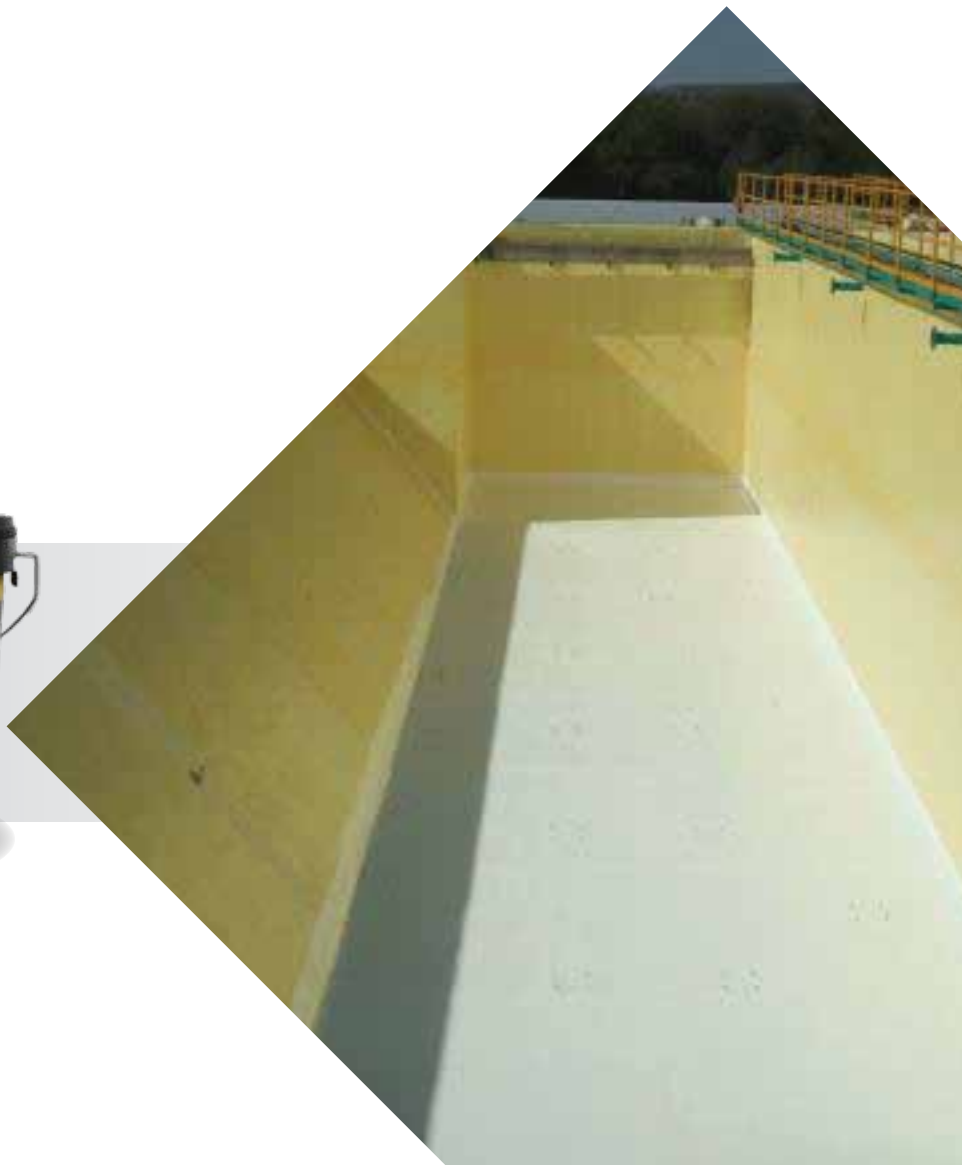
HYPERDESMO® 2K-W

A two-component solvent-free polyurethane coating for tank waterproofing and protection that has been certified for drinking water tanks in accordance with regulations all over the world. It has been certified according to several European regulations by the O.T.E.C. institute, to the Regulations of Australia and New Zealand and to the Water Supply Regulations of England, Wales, Ireland and Scotland through the Water Regulation Advisory Scheme (WRAS).

Even more importantly, while creating HYPERDESMO® 2K-W, we took into consideration all possible drinking water limitations and specifications globally, in order to create a product that could be used under any drinking water regulations.

It has excellent thixotropy and rheology without being viscous; it cures fast and remains flexible in a multitude of temperatures.

Extremely hydrophobic and hydrolysis resistant, it has already been used for the waterproofing of many potable water applications as well as in water desalination plants globally.



Alchimica Aliphatic Solutions

ALCHIMICA's aliphatic products expand on 3 different technologies, solvent-based, water-based and 100% solids. They are fully aliphatic and provide excellent color and UV protection with no yellowing effects. They increase traffic resistance and assure high chemical resistance, forming the highest level of protection. Our aliphatic solutions can be part of both flooring and waterproofing systems.

Our aliphatic products provide solutions to the following applications:

- Top coats over flooring and waterproofing systems
- Stone Carpets binders, fillers and top coats
- Swimming pools and applications that require chemical resistance
- Concrete sealing
- Decorative and mineral concrete applications



HYPERDESMO® ADY-E

HYPERDESMO® ADY-E is ideal for color and traffic protection of HYPERDESMO® products. It has excellent UV resistance, it is fully aliphatic and shows no yellowing effects. It also has excellent chemical and mechanical resistance. Using HYPERDESMO® ADY-E maximizes the system's working life.

HYPERDESMO® - T

HYPERDESMO® - T, offers a unique solution in waterproofing applications over tiles, natural stones, verandas, balconies as a transparent waterproofing membrane and performs exceptionally as a binder in stone carpet applications. Being transparent and fully aliphatic, it does not yellow/discolor when exposed to sunlight.

AQUASMART®-TC RANGE

Our innovative water-based aliphatic products, the AQUASMART®- TC range, are the most recommended solution for protecting PU and Epoxy self-levelling floors. Easily pigmented with water-based pigment pastes, AQUASMART®- TC products can be used in a wide range of applications where UV, water and chemical resistance is needed. They can also display anti-stain properties and protect self-levelling cementitious flooring mortars.



Innovative Waterborne PU Products

Always true to its innovative heritage ALCHIMICA pushed the barriers of waterproofing even further and made another major breakthrough by creating the AQUASMART® range. Novel and innovative waterborne polyurethane products that incorporate all the properties of solvent-based polyurethane products while being both user and environment friendly, due to their waterborne technology. AQUASMART® products represent the embodiment of ALCHIMICA's vision to the future of waterproofing.



AQUASMART®-PU-2K



AQUASMART®-PU-2K is a two component, waterborne, aliphatic coating with exceptional performance in a multitude of applications. Apart from its water, chemical and UV resistance it also displays exceptional ease of application. Due to its thixotropic properties, it is easily applied on any surface regardless of its complexity.

The material is suitable for the waterproofing of roofs - either flat or inclined- tested and certified for asbestos surfaces encapsulation and highly recommended for the waterproofing and protection of polyurethane foams. The AQUASMART®-PU-2K system is the first of its kind globally to achieve a CE certification for a 25 year expected working life (W3), with a film thickness of just 1.5 mm and complying with TL4, TH4 and P4 resistance properties. Thus, it is considered one of the best liquid waterproofing systems in the world.

AQUASMART®-PB

AQUASMART®-PB is a bitumen extended polyurethane, waterborne coating ideal for waterproofing of foundation walls and wet rooms. Its unique feature is that unlike most bitumen emulsions, AQUASMART®-PB cures rapidly and independently of climate conditions. Furthermore, it has excellent thixotropic properties, allowing the application of the desired thickness on a vertical substrate in just one coat if necessary.

AQUASMART®-PB can be also easily applied using an airless spray machine that makes the application procedure simple and economic. As with all ALCHIMICA products, it is exceptionally hydrophobic and achieves high waterproofing performance and durability under all kinds of environmental conditions.



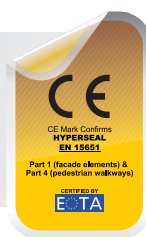
AQUASMART® -HYBRID

AQUASMART®-HYBRID is a water based, very fast drying, fully aliphatic Polyurethane hybrid coating for waterproofing and protection. The material is easily applied on both vertical and horizontal substrates with brush, roller or airless spray machine.

AQUASMART®-HYBRID forms a seamless, elastic and hydrophobic membrane which does not need any topcoat for UV protection. The product is CE certified by the European Organization for Technical Assessment (EOTA) for a 10 year good working performance (W2).



Alchimica Sealing Solutions



HYPERSEAL®

Beyond polyurethane waterproofing solutions, ALCHIMICA is a leading producer of both one and two component polyurethane sealants. Our sealants combine the technology of polyurethane and silylated polyurethanes. The result is a universal sealant that combines the excellent mechanical properties of a polyurethane sealant with the excellent universal adhesion, ease of application and non-toxicity of silylated polyurethanes.

ALCHIMICA's range of sealants include one-component low modulus gunnable sealants for construction and expansion joints, one-component high modulus and fast curing gunnable sealants/adhesives for flooring joints, windows and metal frames, glasses, etc. and finally, two component pourable sealants suitable and highly recommended for sealing joints in pavements and airport aprons and runways.



Alchimica Flooring Solutions

Finally yet importantly, ALCHIMICA provides Epoxy and PU based flooring solutions. All products are solvent-free and are comprised of 100% solids in order to not present any shrinkage during curing. Depending on the product used, we may have seamless rigid floors with excellent abrasion resistance, ideal for heavy traffic industrial areas; or elastic seamless crack-free floor surfaces ideal for applications in hospitals, food industries, chemical industries, and liquid-treating industries.

With regard to topcoats for flooring applications, we provide a range of aromatic or aliphatic topcoats –depending on project requirements- for a glossy or matte finish.

Our most innovative waterborne top coat **AQUASMART®-TC 2K Floor-Protect** though, is the most recommended solution for protecting PU and Epoxy self-levelling floors. Easily colored with waterborne pigment pastes, it is a very fast curing product with excellent anti-stain, abrasion and UV resistance properties, producing a satin smooth finish.





Business Cards

Four large empty rectangular boxes with L-shaped corner lines, intended for business cards.

Notes

A series of horizontal dotted lines for taking notes.

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