

## Consilex Altrain

### Water repellent transparent non-pellicular solution for masonry surfaces



Water repellent, colourless, non-pellicular impregnating agent based on silanes and siloxanes in solvent. It protects plaster, hydraulic mortars, natural stone, tuff, and other building materials, from the mechanical-chemical action of rain, from freezing/thawing cycles and from the action of pollutant agents. From the functional point of view, the treated materials have pores and capillarity internally coated but not filled, so there is no deposit of coatings, it does not alter the colour, it does not change the appearance of the surfaces and the water vapour breathability is maintained. These characteristics, together with good chemical stability (against oxygen, UV radiation and pollutants) and the total absence of harmful by-products, make the product suitable for application on different supports, in various environments of exposure and in particular for interventions on artefacts of historical-artistic value. The high capillary penetration and diffusion capacity of Consilex Altrain makes the product also suitable for use for chemical barrier injection treatments against rising damp.

**CUSTOMS CODE:** 3824 9970

**COMPONENTS:** Single-component

**APPEARANCE:** Liquid

**AVAILABLE COLORS:** Transparent

**PACKAGING AND DIMENSIONS:** Plastic can 10 l - Plastic can 5 l - Plastic can 25 l

### OBTAINED CERTIFICATIONS AND REGULATIONS



### FEATURES AND BENEFITS

The special mix of high wetting power solvents carries the active substances (especially the short-chain siloxanic oligomers) towards the inside of the masonry structure depositing them on the capillary walls. The evaporation of the solvent and the combination of silanes-siloxanes with the moisture present in the support, cause the cross-linking and the rooting of the active substances on the application supports. The result is an immediate water-repellent effect of the treated materials (negative angle of wetting against water droplets). This causes the drastic reduction of water penetration inside the treated materials, the reduction of efflorescence and the onset of an effective "self-flushing" effect of the surfaces ("Lotus flower" effect).

### FIELDS OF APPLICATION

- Impregnating, waterproofing, protective treatment of above-ground surrounding walls, made of brick, marble, slate, sandstone, limestone, tuff, natural stone in general, brick, cementitious or lime-based conglomerates, etc.
- Water repellent transparent protection of buildings with historical or particular architectural value.
- Chemical barrier injection treatments on walls affected by rising damp.
- Preliminary antisaline treatments, on bare masonry, carried out immediately before the realization of a dehumidifying plastering cycle (despite the effectiveness of the product, which has been extensively tested over the years, pay maximum attention to the timing of realization of this preventive treatment to avoid loss of adhesion of the plastering cycle. For this kind of application we recommend using green-building treatments based on ammonium salts in aqueous solution, like Sanareg)
- Impregnations with Consilex Altrain are not suitable for waterproofing:
  - Terraces and flat roofs
  - Water basins;
  - Underground artefacts subject to water in negative counter-thrust;
  - Plaster artefacts;
  - Synthetic plasters or decorated with synthetic paints.



## ALLOWED SUPPORTS

Plasters - Cement-based or lime-based mortars - Plaster (gypsum) - Bricks - Tuff - Mixed walls (bricks and stones) - Brickworks - Stone walls - Natural stones

## PREPARATION OF SUPPORTS

The supports must be dry, clean and dust-free. In particular, pay attention to saline concretions, dirt, grease, oils, paints, moss and weeds, which can prevent the in-depth penetration of the product and that must be removed beforehand.

## MODE OF USE

**EXPOSED MASONRY TREATMENT** The product is ready for use and does not require dilution with water or solvents. Apply the product evenly and uniformly, by spraying at low pressure or brushing one or more coats, possibly without interruptions or time intervals between one coat and the next, taking care to improve the saturation of the masonry structure. Consumption varies according to the absorbent power of the support and indicatively: cementitious plaster: 0.15 - 0.25 kg/m<sup>2</sup>; bricks: 0.25 - 0.50 kg/m<sup>2</sup> per coat; natural stones: 0.15 - 0.50 kg/m<sup>2</sup> per coat. After the application of Consilex Altrain, it is no longer possible to paint with paints dispersed in aqueous carriers. Do not apply in case of imminent rain or with humidity exceeding 85%. **CHEMICAL BARRIER INJECTIONS** Draw a line parallel to the external pavement or to the internal flooring, at a distance of approximately 10 - 15 cm from the walking surface. On the traced line, set up drilling points approximately 15 cm apart from each other. The inclination of the holes will be approximately 20° downwards. The depth of the holes will be approximately 4/5 of the thickness of the wall to be injected. The drill bit to be used must have a diameter of 18-20 mm. Once the holes have been drilled, the dust produced by the drilling must be eliminated. Proceed with the execution of gravity or low-pressure injections using an airless pump directly into the holes arranged in the masonry (remember that the product is solvent based. The release of the solvent from injected masonry, characterized among other things by the typical smell of solvent-based materials, is a very slow process, which must provide necessary precautions and be carried out exclusively by skilled workers. Despite the effectiveness of the product that has been extensively tested over the years, therefore, for injection operations on masonry affected by rising damp, in the first instance, we always recommend evaluating solutions based on water-based products such as Consilex Mauer Mono or CONSILEX BARRIER A). Contains flammable solvents, harmful and hazardous for the aquatic environment. Keep away from open flames and sources of heat, do not smoke during its application, use with gloves and safety glasses. In the case of application in closed environments, provide for proper ventilation.

## APPLICATION METHODS

Brush - Sprayer

## TOOL CLEANING

Nitro thinner

## KEY FEATURES

- |   |  |
|---|--|
|  Flammable material             |  Shelf-life: 24 months            |
|  Solvent-based product          |  Temperature of use: +5 / + 35 °C |
|  Use wearing protective glasses |  Use wearing protective gloves    |
|  UV-resistant                   |  |



## TECHNICAL SPECIFICATIONS

EN ISO 2811\_1  
Density **0.83 g/cm<sup>3</sup>**

Brookfield  
Viscosity **5 mPas**

The product doesn't create film

Resistant to freezing/thawing cycles in the presence of salts/chlorides

Active substance **9 %**

Depth of penetration **≥ 4 mm**

## CONSUMPTION

From 0.15 to 0.30 litres of Consilex Altrain for each square metre of surface to be treated, based on the porosity of the support.

## STORAGE AND CONSERVATION

Protect from freezing. Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight. Inadequate storage of the product may result in a loss of rheological performance. Opened containers must be used immediately. Store the product at a temperature between +5°C and +35°C.

## PHOTO GALLERY



## ADDITIONAL CONTENT



Produced and distributed by **AZICHEM srl**  
Via Giovanni Gentile, 16/A - 46044 Goito (MN), Italy  
Tel: +39 0376.604185 / 604365  
Fax: +39 0376 604398  
[www.azichem.com](http://www.azichem.com) - [info@azichem.com](mailto:info@azichem.com)

Update of **01-06-2022**  
Terms of sale and legal notices available at  
<https://www.azichem.com/general-sales-conditions>  
**Total pages of this document: 4**

## WARNINGS AND PRECAUTIONS

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

Azichem Srl does not assume any liability arising from inadequate characteristics related to improper use of the product or connected to defects arising from factors or elements unrelated to the quality of the product, including improper storage. Those wishing to utilise the product are required to determine prior to use whether or not the same is suitable for the intended use, assuming all consequent responsibility.

The technical and characteristic details contained in this data sheet shall be updated periodically. For consultation in real time, please visit the website: [www.azichem.com](http://www.azichem.com). The date of revision is indicated in the space to the side. The current edition cancels out and replaces any previous version.

Please note that the user is required to read the latest Safety Data Sheet for this product, containing chemical-physical and toxicological data, risk phrases and other information regarding the safe transport, use and disposal of the product and its packaging. For consultation, please visit: [www.azichem.com](http://www.azichem.com).

It is forbidden to dispose of the product and/or packaging in the environment.

