

## Consilex ST

### Specific transparent reinforcement for cultural heritage restoration



Transparent penetrating consolidator, for natural stones, ornamental stone elements, mineral plasters and in general for the restoration of cultural heritage. It consists of ethyl esters of silicic acid in solvent, hardening by reaction with atmospheric humidity. It is applied by spraying at low pressure, until the treated surfaces are rejected, in order to guarantee an extremely deep consolidation.

**CUSTOMS CODE:** 3824 9970

**COMPONENTS:** Single-component

**APPEARANCE:** Liquid

**AVAILABLE COLORS:** Transparent

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

### FEATURES AND BENEFITS

The ethyl esters of the silicic acid, which are the fundamental constituents of Consilex ST, penetrate the degraded and depleted wall fabric of the originating connective bonds, reconstructing a stable, insoluble binder matrix that is resistant to water, to UV radiation, and to naturally harsh substances. The reinforcement occurs without giving rise to foreign and/or harmful salts and without involving colour variations. It can be conveniently used in combination with the transparent non-pellicular water repellent treatment Consilex Altrain.

### FIELDS OF APPLICATION

Reinforcement, by adding silicic bonds, of manufactured goods and coatings made of porous stone: sandstone, trachyte, tufas, bricks, mineral plasters, terracotta, conglomerates, etc. Especially recommended for restoration interventions on architectural, monument and building works of historic significance.

### ALLOWED SUPPORTS

Plasters - Bricks - Tuff - Mixed walls (bricks and stones) - Stone walls

### PREPARATION OF SUPPORTS

The application media should be clean and dry; where necessary the cleaning should be carried out exclusively with demineralised water.



## MODE OF USE

The product should be applied until "rejection", by low pressure spraying (maximum 0.5 bar). In situations of particular degradation a second application may be required after 10-20 days. Preliminary tests should always be carried out depending on the heterogeneity of stone materials, to determine the level and effectiveness of the reinforcement obtainable, the effective absorption of the product, the absence of changes in colour etc.. Remove any excess with Nitro thinner. Do not apply in the presence of direct exposure to sunlight of surfaces. Complete solution reaction will be obtained after about 4 weeks from the day of application.


## APPLICATION METHODS

Brush - Sprayer


## TOOL CLEANING


Nitro thinner - UNI solvent


## KEY FEATURES

 Density: 0.92 kg/dm<sup>3</sup>

 Shelf-life: 6 months

 UV-resistant

 Flammable material

 Temperature of use: +10 / +25 °C

## TECHNICAL SPECIFICATIONS

Active substance **70 %**

Not to be diluted

Flash-point < **21 °C**

## CONSUMPTION

Approximately 0.2 litres of Consilex ST per 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. Store the product at a temperature between +5°C and +35°C.



## PHOTO GALLERY



## ADDITIONAL CONTENT



## 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.

