







STONE 1200

SOLVENT BASED WATER-REPELLENT CONSOLIDATING PRODUCT FOR RESTORING TERRACOTTA, PLASTER AND ABSORBENT STONES SUCH AS SANDSTONE, TUFA AND TRACHYTE

| CHARACTERISTICS | | ENVIRONMENTAL | METHOD OF USE | | PRECAUTIONS |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------|
|  |  | |  |  | |
| SOLVENT BASED | ALLOWS TO BREATHE | | SPRAY APPLICATION | APPLY BY BRUSH | |

PROBLEM

PROTECTS AND CONSOLIDATES MASONRY WORK AND STONE



Natural stone is subject to the aggression of rain, wind, sun, freeze/thaw cycles as well as the pollutants present in the air. This leads to an increase in the surface porosity and physical, chemical and biological degradation. Due to this aggression, natural stone loses its cohesion with the subsequent problems of crumbling material and disintegration. Therefore, the stonework must be consolidated and then protected from aggressive agents.

SOLUTION

The water-repellent consolidating product **STONE 1200** is made up of silicic acid ethylic esters and silossanic hydrophobic substances dissolved in special solvents which allow optimal absorption through the capillaries of the stone material as far as the healthy nucleus of the stone, where, after reacting with the humidity in the air, **STONE 1200** is transformed into silica which acts as a binding substance.

APPLICATION FIELDS

The water-repellent consolidating product **STONE 1200** can be applied in the restoration of any kind of construction materials, as long as they are mineral and absorbent.

ADVANTAGES

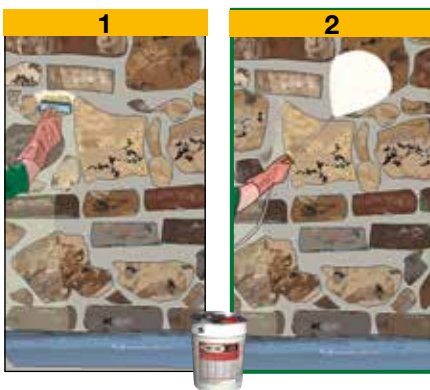
- Excellent penetration into the stone surface to be treated.
- Consolidating and water-repellent effect with a single product.
- Formation of a mineral binder that can withstand UV rays and is not attacked by corrosive atmospheric agents.
- Maintains permeability to water vapour without creating a film.



METHOD OF USE

• SURFACE PREPARATION

For the best results, the surface to be treated must be absorbent, dry and clean. The temperature must be between +10°C and +25°C. It is important not to expose the surface to direct sunlight. When dealing with dirty surfaces it is absolutely necessary to thoroughly clean them with demineralised water and then to dry them



completely. It is recommended not to use acids, alkalis or water containing salts which could leach to the surface. The cleaning operations must be carried out gently in order to remove the dirt, algae, mould deposits, etc. without damaging the structure of the stone. When dealing with seriously damaged surfaces which tend to crumble it is a good idea to treat them with a pre-consolidating treatment before cleaning.

• APPLICATION

The water-repellent consolidating product **STONE 1200** can be applied using the tablet system, by immersion or with a paintbrush (1). It can also be applied by spray using a low-pressure sprayer (max. 0.5 bar) (2). The material to be treated should be totally saturated until the consolidating product is no longer absorbed so that the healthy nucleus of the stone is reached. Normally one application cycle is sufficient. Sometimes, however, it may be necessary to repeat the treatment after 2-3 weeks. The consolidating water-repellent product **STONE 1200** completes its reaction after roughly 4 weeks.

• PRECAUTIONS

Due to the heterogeneous nature of stone materials it is absolutely necessary to carry out preliminary tests on samples of the stones to be treated in order to verify:

1. the degree of consolidation which can be obtained;
2. the quantity of material to use which will vary depending on the absorption of the support from 0.3 to 5 l/m² (with the tablet system);
3. absence of colour variations in the stone materials to be treated.

- Due to the flammability of the solvents contained in the product, do not smoke or use naked flames when applying **STONE 1200**.
- The product reacts with the humidity in the atmosphere. Therefore it is absolutely essential to hermetically seal the containers after use.
- If too much material has been applied it is possible to remove the excess before it hardens, using pads soaked in organic mineral solvent (benzene).
- Store in a cool dry place.
- Protect from heat sources and the sun's rays.

TECHNICAL CHARACTERISTICS

| | Standard | STONE 1200 |
|-----------------------------------------------------------|-------------------------|---------------------------------------|
| Appearance | | Liquid |
| Colour | | transparent-pale yellow |
| Density | EN 2811-1 | 0.97 kg/L |
| Viscosity | | 3,4 cps a 25°C |
| Content in solvent | | 30% |
| Silicic acid ethylic ester content | | 66 ± 1% |
| Flammability point - closed container | ASTM D 3828-87 | > +17°C |
| Shelf life in original packaging and store in a dry place | | 12 months |
| Characteristics of product and workability | | |
| Application temperature | | +5°C ÷ +35°C |
| Application | | manual or by spraying at low pressure |
| Performance characteristics | Normativa | Product performance |
| Class and type | EN 1504-2 | H PI-MC-IR |
| Water absorption and resistance to alkalis | EN 13580 | <7.5% |
| Penetration depth | EN 1504-2 P.19/3 | <10 mm - class I |
| Drying speed for hydrophobing impregnation | EN 13597 | >30% - class I |
| Hazardous substances | EN 1504-2 | According note in ZA.1 |

Test conditions: temperature 23 ± 2 °C, R.H. 50 ± 5% and air speed in the test area < 0.2 m/s. **These figures may vary depending on the specific conditions of the worksite: temperature, humidity, ventilation, absorptency of the base coat.**

Complies with the general principles defined in **EN 1504-9** – Principles for evaluation of the use of products and systems.

the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

PACKAGING

10-kg-Pail

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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