

# SOLIDROCK

The above directions are the result of our long scientific and operative experience, aimed at obtaining the best results in this specific operation. In any case, these directions are not binding and do not involve our responsibility, due to the particular, different conditions and ways of carrying out the job. In case of treatment on particular materials, especially outdoors, we recommend to contact the Geal's technical department.

THIS DOCUMENT IS AN INDICATIVE TECHNICAL DATA SHEET  
TRANSLATED FROM THE ORIGINAL IN ITALIAN LANGUAGE.  
WE MAY SEND THE ORIGINAL ONE ON DEMAND

05/01

## CHEMICAL DESCRIPTION

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Mixture of silica esters in a polar solvent for the consolidation of stone materials.

## APPLICATION & PERFORMANCE

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For all absorbing siliceous stone material (for example sandstone, tuff, etc.) in- and outdoors; application of **SOLID ROCK (GEAL)** on compact limestone and marble does not obtain maximum efficacy due to their mineralogical nature.

Apply on crumbling stone to stop decay. Suitable also for pre-consolidation before cleaning.

Reacts with the substratum reconstructing the mineral binder without compromising following protective treatments. Easy application and deep penetration. Complete consolidation takes about four weeks. Treated material can also accept further applications in order to get complete saturation, carried out with **SOLID ROCK (GEAL)** or deep-penetrating water-repellent protective (ICR 17 COTTO E PIETRA) or with water and oil repellent products (BARRIER 2 PIETRA or BASOIL). The active ingredients of **SOLID ROCK (GEAL)** are resistant to acid cleaning and acid rains.

Does not form any film. If properly used does not create any crust nor whitening. Unlike other inorganic consolidants **SOLID ROCK (GEAL)** does not generate harmful compounds for the treated material, for health and environment.

It is not a syntetic or polymeric binder.

## DIRECTIONS FOR USE

Surface to be treated must be dry. Do not apply on surfaces exposed to direct sunlight during the hottest hours of the day. Usually applied with a brush; suitable for specialistic application by injection; it is possible to apply with a low-pressure solvent-proof sprayer if brushing could damage the integrity of the surface, particularly weak because of decay. On crumbled stone it is recommended to carry out cleaning after a pre-consolidation with **SOLID ROCK (GEAL)**. For this kind of intervention can be used the special GEAL Extracting poultices (ESTRATTORE AB 57 PLUS, ESTRATTORE ALCALÈ, GRAFFI ESTRATTORE). After cleaning a deep consolidation can be carried out: Stone can be saturated with further applications of **SOLID ROCK (GEAL)** "wet on wet". When saturation has been obtained, remove all possible stagnant residues with pads or cloths using solvent-based products (SERVICE SOLVENTE, SERVICE LINFOSOLV - GEAL, or common organic solvents; ethyl alcohol, acetone, MEK, white spirit, etc. ). If residues are not removed surface whitening may occur. On heavily decayed stone, it is recommended to renew the application of **SOLID ROCK (GEAL)** after a few days to obtain a complete impregnation. In order to achieve a perfect result, it is fundamental to get to a deep impregnation up to the intact layer, so to avoid the existence of decayed material beneath the consolidated layer, which could cause detachment. Coverage is proportional to the absorption rate and decay grade of the stone; it is recommended to carry out trials trails to establish product dosage. **SOLID ROCK** reacts with moisture and gets useless when container is left open or not well closed. **SOLID ROCK** is inactive when geled.

## CHEMICAL - PHYSICAL PROPERTIES

Specific weight (20 °C): \_\_\_\_\_ **1,005 (gr\cm3)**  
Flash point: \_\_\_\_\_ **22 °C**

Appearance: **clear liquid**  
Odour: **ethereal**  
Colour: **colourless**

## SAFETY INFORMATION

Symbol: **None**  
**R10: INFLAMMABLE**  
**S24/25** Avoids contacts with eyes and skin.

**Material Safety Data Sheets according to the EC Directive n°91/155 are available.**

## SPECIFICATIONS

Use **SOLID ROCK** (solution of silica esters in a polar solvent) for the consolidation of stone material. Apply with a brush on dry surfaces in few layers, taking care to impregnate deeply, removing any residues with pads (with solvent-based products).

## TRANSPORT by truck (ADR)/ by train (RID)/ by sea and air upon request

ADR/RID: **3,31 °C** UN number: **1866** Hazard number: **30**  
Technical name: **resins in solutions**  
Symbol for the transport: **F INFLAMMABLE** Label number: **8** Packaging code: **1A1**  
Exemptions: max real quantity **1.000 kg.**  
Custom item : **34039990**

**Further information can be found on the relevant Product Safety Data Sheet.**

## PACKAGING

1 Liter plastic bottle box of 6 bottles

Industrial packaging of loose product upon request  
All the packaging is in conformity with the law  
**Geal Srl is a member of CONAI**