

ADVANTAGES OF CIR SOLUTION

CIR uses molecules that form intermediates as close as possible to the natural binder of the stone. These molecules can be organic or inorganic in nature and present substantial differences between them: water repellence, guaranteed only by organic ones, and chemical affinity with the treated materials.

CIR SOLUTION STRENGTHS:

- IT IS NOT SUBJECT TO QUICK AGING
- HAS A GOOD RESISTANCE TO CLIMATE CONDITIONS
- IT IS COMPATIBLE WITH THE CHEMICAL AND PHYSICAL PROPERTIES OF MATERIALS
- GUARANTEES VAPOR PERMEABILITY
- DOES NOT CAUSE HARMFUL BY-PRODUCTS
- IT IS NON-TOXIC AND ECO FRIENDLY



CONSOLIDATION THE SOLUTION



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PRODUCTS FOR BUILDING INDUSTRY,
MONUMENTS RESTORATION,
FLOORINGS AND GRAFFITI

CLEANERS - CONSOLIDATES - PROTECTIVES - DEHUMIDIFYING PRODUCTS

TECHNOLOGIES FOR THE TREATMENT OF NATURAL STONE AND ARTIFACTS

Art meets the craft

CHEMISTRY SERVING THE WORK OF MAN IN RESPECT OF THE ENVIRONMENT

CONSOLIDATION: THE SOLUTION

PROBLEM

The multiple degrading actions on natural surfaces, caused by chemical or physical alterations or by microorganisms, can cause on the material itself a loss of binder, such as to make the surface weak, crumbling and incompact, with increased porosity and losses of material.

The stone materials are also rigid and fragile, so they are sensitive to outdoor and indoor mechanical stresses (loads, vibrations, frost, crystallization of the salts, thermal expansion).

When this happens, the surface needs a conservative consolidation intervention, as well as initial cleaning and subsequent protection.

SOLUTION

- Recreate the continuity between the deteriorated layers and the healthy core of the material
- Improve the resistance to mechanical efforts applied both outside and inside the capillary network
- Ensure the reabsorption of stress strains caused by thermal cycles



CONSACRIL SIL S



CONSACRIL SIL A



ACQUACONS

INTERVENTION CYCLE

- Removal of pollutants present on surfaces with a specific CIR cleaner
- On a clean and dry surface, carry out the consolidation intervention with the application of one of:
ACQUACONS - CONSACRIL SIL A – CONSACRIL SIL S
- Evaluate the consolidating effect after a few days and repeat the operation if necessary
- Apply the specific CIR protection on a clean and dry surface

N.B. In the case of consolidation with **CONSACRIL SIL A** and **CONSACRIL SIL S** the final protective does not need to be applied.

WATER BASED CONSOLIDANTS

ACQUACONS



STRENGTHS

- Water based product
- Mineral product based on silicate lithium
- Non-toxic VOC = 0
- High penetration power
- High consolidating power
- Does not alter the materials

EXAMPLES OF USE

- Concrete-based or lime plasters
- Natural incompact stones: Tuff – Carparo stone – Travertine – Pietra Serena – Sandstones – Marbles – Lecce stone
- Incompact artifacts:
Face brick - Architectural Concrete
Crumbling mortars and stuccos

APPLICATION



CONSACRIL SIL A



STRENGTHS

- Water based product
- Acryl siloxane product
- Makes the treated surfaces definitely water-repellent
- Does not alter the materials
- Does not create superficial films

EXAMPLES OF USE

- Natural incompact stones: Tuff – Carparo stone – Travertine – Pietra Serena – Sandstones – Marbles – Lecce stone
- Incompact artifacts:
Face brick - Architectural Concrete

APPLICATION



SOLVENT BASED CONSOLIDANTS

CONSACRIL SIL S

STRENGTHS

- Solvent based product
- Siloxanic acrylic product
- Makes the treated surfaces definitely water-repellent
- Gives the products a pleasant wet effect
- Does not create superficial films

EXAMPLES OF USE

- Natural incompact stones: Tuff – Carparo stone – Travertine – Pietra Serena – Sandstones – Marbles – Lecce stone
- Incompact artifacts: facing bricks - architectural concrete

APPLICATION

