

## ADVANTAGES OF CIR SOLUTION

The solution proposed by CIR makes it possible to perform effective and resolving dehumidification of the rising dampness problem, on many cases that can be found on site and on many materials constituting the masonry wall. The proposed restoration materials guarantee full compatibility with the chemical cutting operation with Barrier Acqua Plus System, full compliance with the wall and compatibility with the materials of the past.

### CIR SOLUTION STRENGTHS:

- READY TO USE
- EASY TO USE
- EASY TO BE MONITORED
- ECOLOGICAL AND NATURAL
- RESPECTFUL OF BUILDING MATERIALS
- LONG LASTING IN TIME

The pre-dosed system enables to avoid "construction errors" and allows to monitor the intervention during the work in order to guarantee the result.



## RISING DAMP THE SOLUTION



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TECHNOLOGIES FOR THE TREATMENT OF NATURAL STONE AND ARTIFACTS

*Art meets the craft*

CHEMISTRY SERVING THE WORK OF MAN IN RESPECT OF THE ENVIRONMENT



CIR CHIMICA  
ITALIANA RESTAURI

PRODUCTS FOR BUILDING INDUSTRY,  
MONUMENTS RESTORATION,  
FLOORINGS AND GRAFFITI

CLEANERS - CONSOLIDATES - PROTECTIVES - DEHUMIDIFYING PRODUCTS

# RISING DAMP: THE SOLUTION

## PROBLEM

Rising damp is essentially due to a physical phenomenon of vehiculation, ie the water's ability to penetrate the walls and to rise from the ground upwards through the capillaries present in the materials constituting them; the water goes back to the capillaries, until the forces involved find equilibrium.

The phenomenon of ascent by capillarity manifests itself every time a liquid comes into contact with a small vessel called a capillary.

The water is then disposed of through the normal process of evaporation through the surface of the masonry, triggering a process of degradation of the elements that constitute it, causing the following damage:

- Widespread presence of stains and salt efflorescence
- Detachments of the plaster from the masonry

## SOLUZIONE

Interruption of the water rising in the wall, by hydrophobizing the capillaries of the materials with the chemical cut of the masonry itself.

### BARRIER ACQUA PLUS



## INTERVENTION CYCLE

- On facing masonry, proceed with the restoration of the stuccos and joints
- Perform the chemical cutting on the face wall with **BARRIER ACQUA PLUS SYSTEM**
- Restore the holes drilled for the injection of the **BARRIER ACQUA PLUS**
- Then proceed with the restoration of the plasters with highly breathable materials

## CHEMICAL CUT

### BARRIER ACQUA PLUS



#### STRENGTHS

- Water Based
- Nanotechnology
- High penetration
- VOC=0
- Easy to use thanks to the pre-dosed kit

#### EXAMPLES OF USE

- Walls in natural stone:  
Lecce Stone – Trani Stone – Carparo – Travertine – Tuff – Sandstone in general
- Face brick
- For interventions on buildings of historical interest

## MORTARS FOR RESTORATION

### MALTA DEUMIDIFICANTE ANTISALE

#### STRENGTHS

- Based on lime and natural pozzolan
- With strong anti-salt action
- Completely free of lime – salts – clinker
- Extremely high breathability

#### EXAMPLES OF USE

- Masonry walls in general in:  
Stone – Bricks – Tuff (or a mixture of them)
- For indoor or outdoor interventions
- For interventions on buildings of historical interest

## MORTARS FOR RESTORATION

### POZZOLANIC DEHUMIDIFYING PLASTER

#### STRENGTHS

- Based on micronized natural lime and pozzolan
- Siliceous aggregates with a max diameter of 3 mm in a continuous curve
- Completely free of lime – salts – clinker
- Extremely high breathability

#### EXAMPLES OF USE

- Masonry walls in general: Stone – Bricks – Tuff (or a mixture of them)
- For indoor or outdoor interventions
- For interventions on buildings of historical interest

### STABILITURA SACILE

#### STRENGTHS

- Based on natural lime and pozzolan
- With white sand of selected sacile
- Completely free of lime – salts – clinker
- Extremely high breathability

#### EXAMPLES OF USE

- Masonry walls in general: Stone – Bricks – Tuff (or a mixture of them)
- For indoor or outdoor interventions
- For interventions on buildings of historical interest