

WATSTOP

*Epoxy- cement resin against
rising damp and water infiltration*



Characteristics and advantages

TOTAL WATERPROOFING

High performance waterproofing in positive and negative thrust.



PERFECT ADHESION

The special cement component allows Watstop to adhere perfectly on any kind of surface, also on wet substrate, acting as an universal adhesion primer.



LOW THICKNESS

Unlike alternative technologies Watstop guarantees its performance even at low thickness thanks to last generation epoxy resin.



APPLICABLE ALL YEAR ROUND

The presence of a special catalyst allows the application of Watstop during all seasons, with temperatures between +5 and +35 °C.



SUITABLE INDOOR AND OUTDOOR

Watstop can be applied either indoor and outdoor, on walls and floors.



QUICK AND EASY APPLICATION

Watstop can be applied by roll, brush, trowel or, for large surfaces, also by airless spray. The application is suitable for vertical and horizontal surfaces.



100% SOLVENT FREE

Watstop is a Solvent Free product. It can be diluted with water in necessary.



Components



Part A Epoxy mortar: In combination with the catalyst, it guarantees an **universal barrier against water**, and its consistency allows **application on vertical and horizontal surfaces**, without the risk of slumping.

Part B Catalyst: It allows Watstop to **mature perfectly** in any climatic conditions. It guarantees the perfect curing of Watstop and **allows the application even on damp surfaces**.

Part C Special cement compound: The powder component gives the product the right mechanical resistance to resist hydrostatic pressure. In addition it guarantees the **perfect adhesion on different types of surfaces** and makes Watstop a suitable support for the application of several kind of coatings.

Technical Data

CE	WATSTOP
	0068 - CPR - 022/2014
	UNI EN 1504-2
	Products and systems for the protection and restoration of concrete structures Part 2 : Systems to protect concrete surfaces

POSITIVE PRESSURE RESISTANCE

9.5 ATM

9.5 ATM

NEGATIVE PRESSURE RESISTANCE

SALT RESISTANCE

EXCELLENT

2000 hours /10 years*

RESISTANCE TO ACCELERATE AGING TEST

ADHESION TO CEMENTITIOUS SURFACE

2.5 N/mm²

3,0 N/mm²

ADHESION TO STONE SURFACE

*1680 hours of accelerate aging test are compared to 10 years of normal life of material.

Packaging

Smart packaging!

The bucket that contains the three components can be used to mix them!



Also available in **WHITE COLOR**



Application fields



VAPOUR BARRIER

Liquid damp proof membrane to be used prior to the application of resin floor coatings.



RISING DAMP ENCAPSULATION

Watstop can be applied to damp walls, indoor or outdoor.



NEGATIVE SIDE WATERPROOFING

Perfect waterproofing for underground building elements.



Application fields



Vapour barrier

Applicable to all supports which may be affected by rising damp. Watstop creates an **efficient damp proof membrane** and at the same time it acts as an **universal bonding primer**.



Rising damp encapsulation

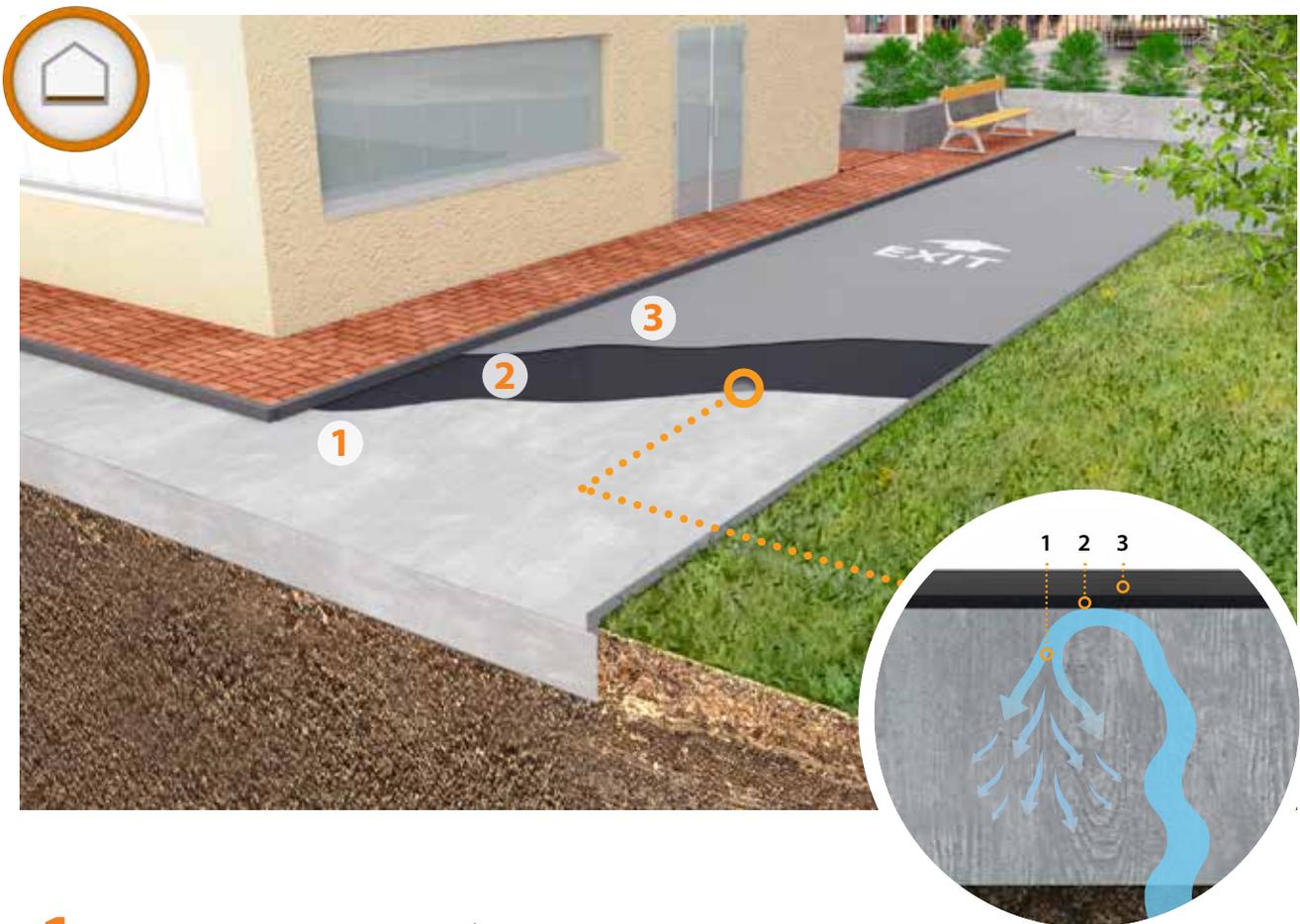
Watstop is a solution for walls affected by rising damp. In **just a few millimeters** it encapsulates humidity and it can be directly coated with paints, smoothers or plasters. This is a solution suitable for **indoor and outdoor**.



Negative side waterproofing

In all situations in which it is not possible to intervene in positive pressure, Watstop is able to **block definitively water infiltrations on the negative side**. This is a solution for all underground walls and floors, elevator pits, swimming pools.

Vapour barrier and adhesion primer



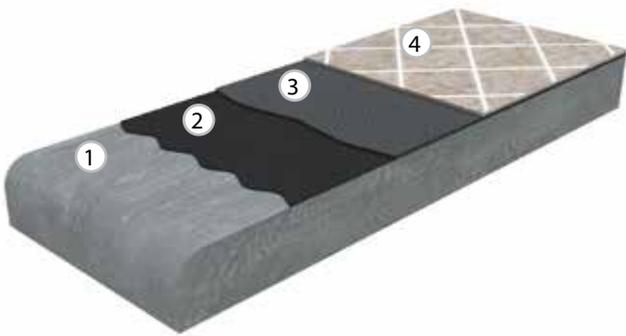
- 1 Cement / Concrete substate
- 2 Watstop
- 3 Diasen resin coating / Diasen waterproofing system

Vapour barrier +
adhesion primer
IN ONE SOLUTION



Applications

Vapour barrier before laying of tiles



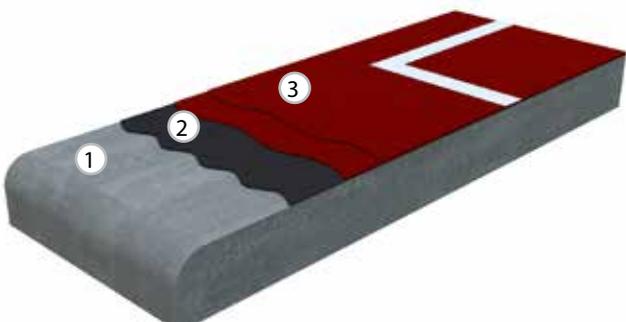
- 1 Support
- 2 Watstop
- 3 Adhesive for tiles
- 4 Tiles

Vapour barrier before the laying of liquid coatings/waterproofings



- 1 Support
- 2 Watstop
- 3 Diasen resin coating /
Diasen waterproofing system

Vapour barrier in Sport Flooring systems



- 1 Support
- 2 Watstop
- 3 Diasen Sport Flooring system



UNIVERSAL ADHESION PRIMER

Watstop has an optimal adhesion to any surface, and it is an ideal bonding primer for different kind of coatings:

- | | |
|-------------|----------|
| ✓ cement | ✓ tiles |
| ✓ concrete | ✓ wood |
| ✓ plasters | ✓ metals |
| ✓ smoothers | ✓ stone |

Encapsulation of rising damp - Outdoor



- 1 Wall with rising damp
- 2 Watstop
- 3 Finishing with plaster/skim coat/paint



Height of Watstop application

Height of rising dampness

It is recommended to treat the area affected by rising damp and an additional area above it for a longer lasting solution.

More details on application of Watstop are shown on the data sheet available at www.diasen.com

Encapsulation of rising damp - Indoor



- 1 Wall with rising damp
- 2 Watstop
- 3 Finishing with plaster/skim coat/paint



A Damp wall



B Cleaning of the support

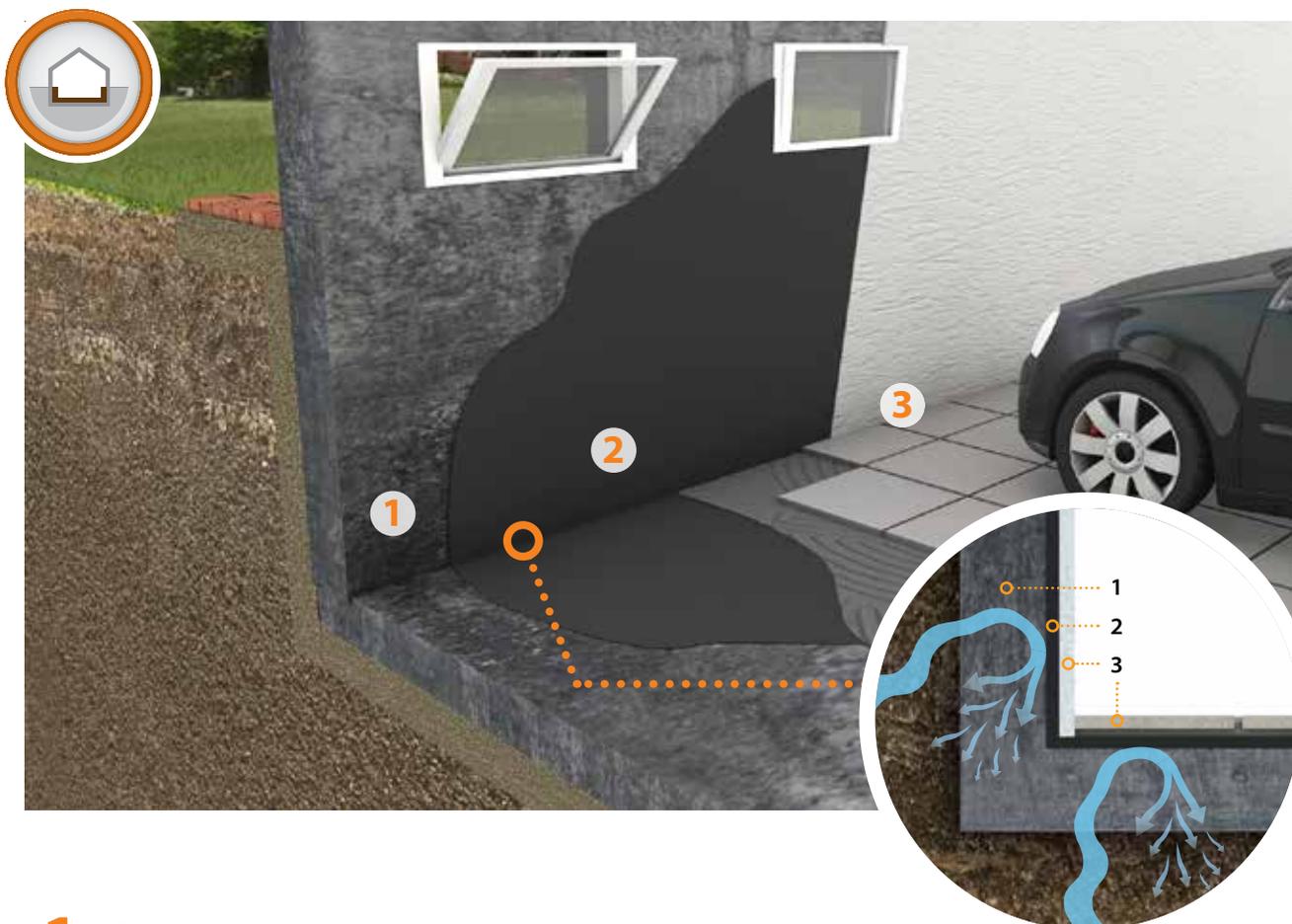


C Watstop application



D Finishing with paint

Waterproofing of underground walls



- 1 Support
- 2 Watstop
- 3 Wall or floor coating

**FAST & EASY
OPTION**
to traditional damp
proofing systems



Watstop

System for floors at ground level: *Watstop + Diathonite Screed*



- 1 Floor
- 2 Watstop
- 3 Diathonite Screed
- 4 Flooring

This system involves the use of **Watstop** as damp proof membrane, and **Diathonite Screed**, lightweight cork based screed. This floor system is **completely protected from water infiltration** and, at the same time, it **provides comfortable living and energetic saving**, thanks to the **thermal insulating properties** of Diathonite Screed.



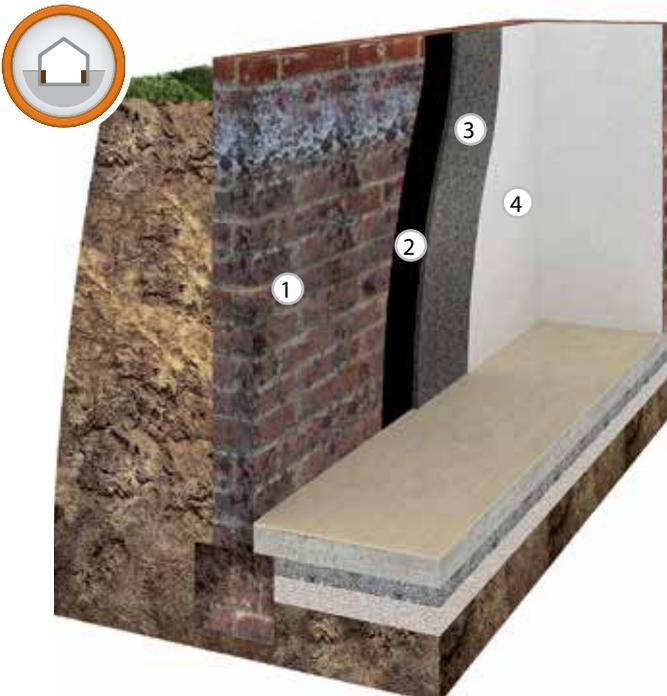
ENERGY SAVING
thanks to *Diathonite*
thermal properties



DAMPNESS CONTROL
thanks to *Watstop*
waterproofing ability



System for underground walls: *Watstop + Diathonite Deumix*



This system involves the use of **Watstop** to **prevent water infiltration**, and **Diathonite Deumix** - The cork-based dehumidification plaster. Diathonite Deumix **contributes to thermal insulation and energy savings** thanks to its thermal properties. At the same time it helps to **regulates indoor relative humidity** thanks to its **hygroscopic abilities**.



- 1 Ground wall
- 2 Watstop
- 3 Diathonite Deumix
- 4 Argacem skim coat

The system

1

Suitable substrates

- ✓ Concrete / Cement
- ✓ Platers / Renders
- ✓ Stones
- ✓ Timber
- ✓ Tiles
- ✓ Metals

2

Watstop coverage

Depending on the field of application, Watstop has 3 different coverages:

Vapour barrier	Encapsulation of rising damp	Waterproofing of underground walls
0.6 kg/m ²	1 kg/m ²	2 kg/m ²

3

Suitable finishing coats

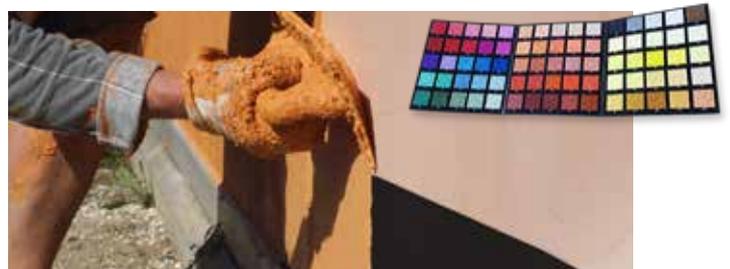
- ✓ Tile adhesive
- ✓ Skim coats/Renders
- ✓ Plasters/screeds
- ✓ Paints
- ✓ Diasen liquid coatings
- ✓ Diasen liquid waterproofing

Watstop + C.W.C. Stop Condense



- PREVENTS CONDENSATION
- AVOID THE FORMATION OF MOLD
- INCREASES THERMAL COMFORT

Watstop + Diathonite Cork Render



- HIGHLY ELASTIC: IT AVOIDS CRACKS
- IT PREVENTS THERMAL LOSSES
- ENERGY EFFICIENT SOLUTION

The Application

1 Preparation and cleaning of surface

It is important to apply Watstop to a **strong and solid substrate**. Therefore, remove in advance detaching or deteriorated parts.



2 Mixing of the three components

Mix the three components with a mixing drill. Water can be added depending on the consistency required. Always follow the application guidelines provided in the data sheet.



3 Application of Watstop

Watstop can be applied by **roll, brush, trowel** or, in the case of large areas, also by special **airless equipment**.



4 Laying of the finishing coat

When watstop is completely cured, proceed with the application of the chosen finishing coat.



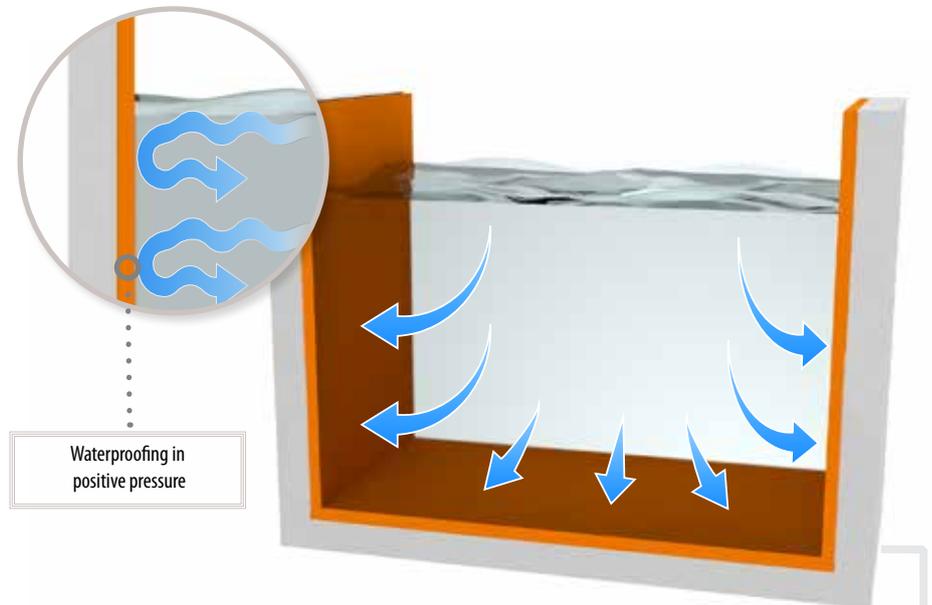
The positive hydrostatic pressure

Waterproofing in **positive pressure** is found whenever **the liquid exercises its pressure directly on the surface of the waterproofing layer.**

In this kind of application **the most important characteristic** of the waterproofing product is its ability to **stop water infiltration.**

Examples of waterproofing in positive pressure:

- the waterproofing applied on a roof;
- the waterproofing applied inside a swimming pool or a water tank;
- the waterproofing applied to the external side of a foundation wall.



*The waterproofing coating, (shown in orange) is in **direct contact** with the **liquid that has to be contained**, and which exercises its pressure directly on **the waterproofing coat.***



Some examples of waterproofing to positive pressure:

- Waterproofing of a foundation wall with the waterproofing coat applied on the external face of the wall (which will be in direct contact with the soil).
- Waterproofing of a swimming pool
- Waterproofing of a dome



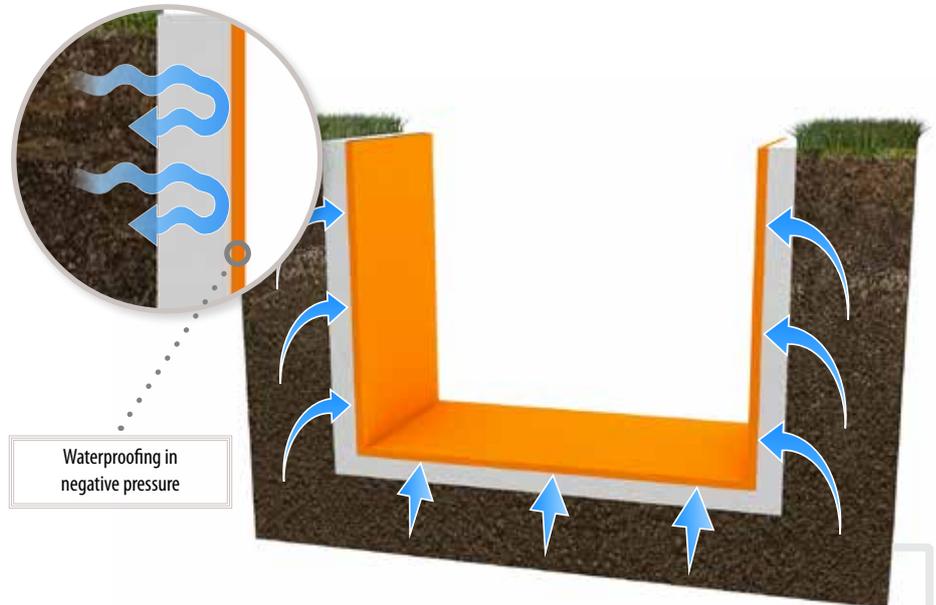
The negative hydrostatic pressure (counterthrust)

Waterproofing in **negative pressure** is found whenever **the liquid exercise its pressure on the interface between the building element and the waterproofing layer.**

In this kind of application **the most important characteristics** of the waterproofing product **are its ability to stop water infiltration and the bonding strength to the substrate.**

Examples of waterproofing in negative pressure:

- The waterproofing on the internal face of an underground wall;
- The encapsulation of rising dampness on the lower part of a masonry;
- The damp proof membrane applied on a wall affected by rising damp;
- The waterproofing of a floor at ground level.

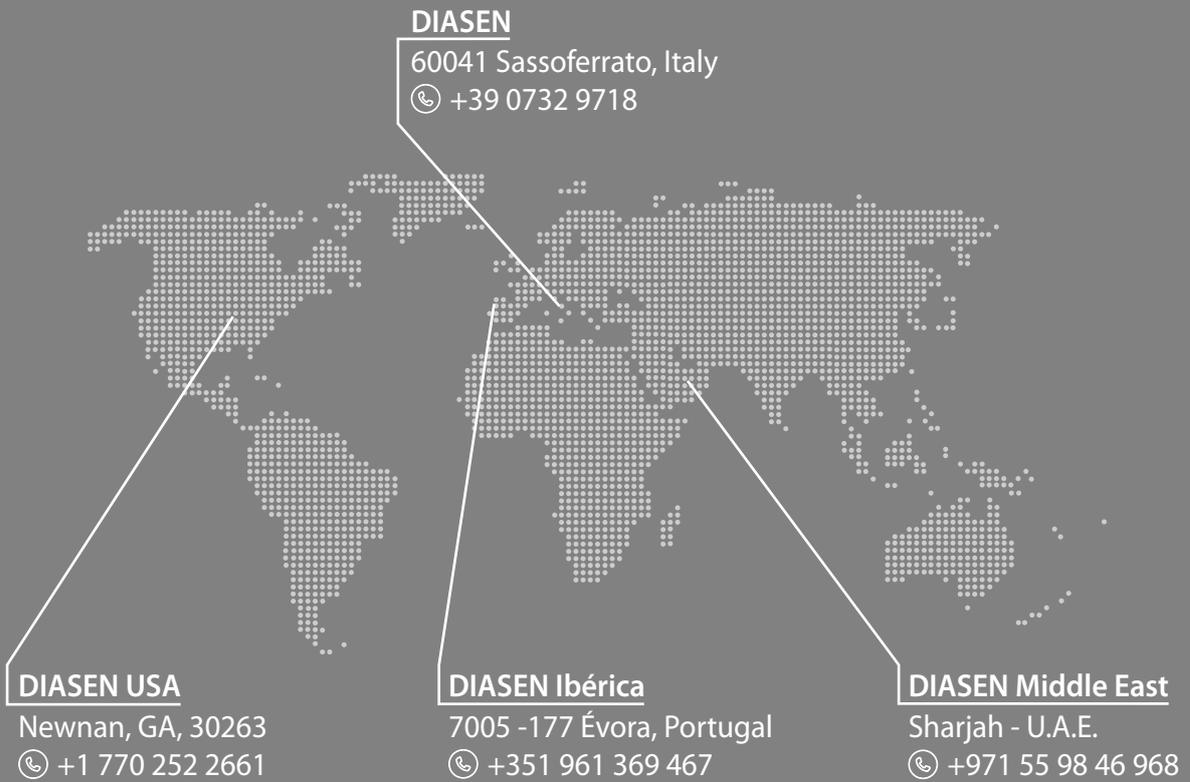


The waterproofing coating (shown in orange) is not directly exposed to the pressure of the liquid, which is instead exercised on the interface between the support and the waterproofing material.



Some examples of waterproofing in negative pressure:

- A. Encapsulation of humidity on a wall affected by rising damp*
- B. Waterproofing in counterthrust of an elevator pits*
- C. Waterproofing in counterthrust of ground retaining walls*



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