



la marque
du bâtiment

DORTHZ STOP

MINERALISER / ANTI-MOISTURE / HARDENER



1. PRESENTATION

The action of water and harmful elements (especially acids) leads to a progressive loss of cohesion in mineral substrates.

DORTHZ STOP helps restore the original mechanical properties of the substrate without altering gas permeability. The reaction of **DORTHZ STOP** with the carbon dioxide present in the air causes silica gel and silica to form, which consolidate the material and permanently block capillaries that cause rising damp.

DORTHZ STOP helps mitigate the issue of rising damp.

Saltpetre and mould disappear as materials dehydrate.

DORTHZ STOP uses moisture as a carrier to reach deep into the materials.

2. ADVANTAGES

- Non-film forming, allows the substrate to breathe.
- Improves mechanical properties.
- Effectiveness and durability over time.
- Significantly slows down the development of moss, mould and bacteria.
- Effectively decontaminates and dries substrates.
- Product under warranty.
- Contains no solvents.
- Resistant to chemicals (acid, chlorine, alkali, etc.).

3. AREAS OF APPLICATION

- Treatment against saltpetre and rising damp.
- Substrate hardener.
- Consolidating mineraliser for mineral and pulverulent materials (concrete, mortar, brick, stone, plaster, stucco, coating, cellular concrete).
- Treatment of fillets, edges and ridges.
- Surface accelerator for mortars.
- Incorporated in mortars for faster setting.
- Protection of substrates against attacks from nitrogen, nitrate, phosphate, sulphate (silage, stabling, manure pit or grain silos).

4. INSTRUCTIONS

Substrate preparation:

- Substrates must be sound, dry and clean.

Nature of the substrates: cement, mortar coating, reinforced or non-reinforced concrete, cellular concrete, plaster, brick, stone, stucco, old substrates... In general, any absorbent substrate.

Preparatory work:

- Remove Laitances using **DECAP CIM SF**.
Traces of oil and grease using **NETT M**.
Old coats of loose paint using **DECAP ALL**.
Loose particles (scraping), dust (brushing).
Roughen old enamel paint.
Metal parts will be isolated using an anti-rust primer **PAINT ROUILLE** or **PAINT COVER**.
Traces of saltpetre using **DECAP CIM SF** or by brushing using a wire brush.

EURO DORTHZ PRODUCTION

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- Rinse with water.
- Apply **DORTHZ STOP**.

It is essential to determine the cause of excessive moisture or significant water run-off on a wall (leaks due to cracked gutters, poor positioning of drainage pipes...).

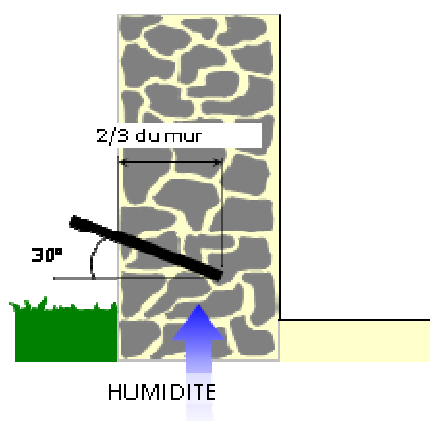
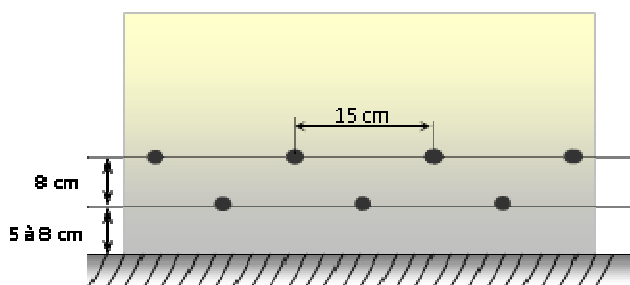
Treatment of rising damp through injection:

Stops rising damp caused by capillary action from the ground.

Remove all loose material from the substrates.

Drill a series of holes in the wall as shown below:

The treatment can be performed inside or outside the dwelling.



If the wall is over 40 cm thick, work from both sides.

The hole diameter shall be equal to that of the injection pipe.

It will be drilled in the joints if the material is excessively hard (i.e. low porosity). Remove dust from the holes.

If drilling is performed in a cavity, fill the latter with grout containing **DORTHZ STOP** (2 L of **DORTHZ STOP** for 35 kg of cement), leave to dry and drill again the next day.

Inject under pressure (2 to 10 bar) or gravity until the material is saturated. Consumption (see table) varies greatly depending on the porosity of the substrate (5 L per linear metre for a wall approximately 20 cm thick). 24 hours later, **fill the holes** with a mortar containing 3% of **DORTHZ STOP** (i.e. 1 to 2 L of **DORTHZ STOP** for 1 bag of cement of 35 kg) or a coating waterproofed with **HYDRO MAX NF** with the same colour as the wall.

Lastly, spray **DORTHZ STOP** over the entire surface treated, at a rate of 5m²/L in 2 coats.

The treatment forms a waterproof barrier in a few days or weeks depending on the thickness and nature of the masonry.

White fluff (sodium), characteristic of the drying out process, will appear.

Regularly brush off these efflorescences until the wall has completely dried.

Complete drying of the wall takes from 6 to 12 months (on average 1 month for every 5 cm in thickness).

The finishing work can be undertaken after that.

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Quantity of DORTHZ STOP (L) to be used theoretically		Number of linear metres to be treated (m)				
		1	5	10	15	20
Wall thickness (cm)	9	2.3	11.3	22.5	33.8	45.0
	14	3.5	17.5	35.0	52.5	70.0
	20	5.0	25.0	50.0	75.0	100.0
	29	7.3	36.3	72.5	108.8	145.0
	40	10.0	50.0	100.0	150.0	200.0

Treatment of rising damp through spraying prior to the work:

On a friable and porous substrate (mineralising effect) or to stop surface moisture.

The substrate shall have as little moisture as possible.

Spray several coats until the substrate is saturated (allow 4 hours between two coats).

Complete crystallisation is achieved after 3 to 6 months.

Application of a coating shall be performed immediately after the last coat using a bonding adhesive such as **ACCRO RETARD**.

It is recommended to add a mass waterproofing compound to the coating, such as **HYDRO MAX NF**.

Anti-dust surface treatment:

First moisten the substrates.

Dilute 1 L of **DORTHZ STOP** with 1 L of water.

Spray without excess on the surface to be treated at a rate of 5 m²/L in 2 coats.

Can be coated over after 48 hours.

Caution:

Risk of white efflorescences if applied on a non-porous substrate or in case of overdose. To remove these efflorescences, simply brush with a scrubbing brush.

Surface accelerator for mortars (for protection against water and frost):

Spray **DORTHZ STOP** undiluted on fresh concrete after bleed water appears.

Consumption will be 10 to 15 m²/L.

Protection of substrates against attacks from nitrogen, nitrate, phosphate, sulphate (silage, stabling, manure pit or grain silos):

Spray **DORTHZ STOP** undiluted on the surface to be treated.

Consumption will be 5m²/L per coat in 2 or 3 coats.

Commissioning after 21 days.

Lining:

The treatment of linings through mineralisation with **DORTHZ STOP** is more especially used for water storage structures made of concrete. Mineralisation provides the substrate with enhanced cohesion. In no case can it be used by itself to waterproof the structure.



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Before implementing **DORTHZ STOP**, moisten the substrates to ensure proper capillary migration.
1st coat of **DORTHZ STOP** diluted (1 part of **DORTHZ STOP** + 1 part of water).
Waiting time: approximately 1 hour.
2nd coat of **DORTHZ STOP** diluted (3 parts of **DORTHZ STOP** + 1 part of water).
Application to saturation can be carried out using a roller, brush or spray. (Avoid excess product in depressions: risk of vitrification).
Consumption shall be 0.4 L undiluted per m² for both coats.

Application:

Application temperature	: Do not apply at temperatures $\leq 5^{\circ}\text{C}$
Application technique	: Injection, brush, roller, sprayer, airless spray gun, HVLP
Consumption	: Depends on the technique used
Cleaning of the equipment	: Water (do not allow to dry)

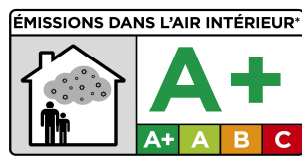
5. CHARACTERISTICS

Appearance in container : liquid

Density : $1.25 \pm 0.05 \text{ g.cm}^{-3}$

VOC

(French decree no. 2011-321 of 23/03/2011)



*Information on the emission level of volatile substances in indoor air that present a risk of toxicity through inhalation, on a scale ranging from A+ (very low emissions) to C (high emissions)

Shelf life : 1 year in its unopened original packaging

(For more information, please refer to paragraph 9 of the safety data sheet).

6. SAFETY OF USE

- See the product's Safety Data Sheet at www.quickfds.fr.
- The product must be stored away from frost, between +5°C and +25°C.
- Do not apply on acidic substrates.
- Protect all materials that must not come into contact with the product or its fumes (stainless steel, copper and its alloys, aluminium and its alloys, zinc and its alloys, chrome and its alloys, and sensitive materials such as wood, glass as well as painted surfaces, etc...) and plants.

The details provided in this Data Sheet are given in good faith, for information purposes only. They shall not in any case constitute a guarantee on our part, or engage our responsibility when using our products. This Data Sheet supersedes all previous versions. Compagnie France Chimie reserves the right to make changes to its products and to this data sheet without prior notice. Our clients shall ensure, before any implementation, that these instructions have not been replaced by a more recent version that takes into account new technical data.

Product solely intended for professional use.

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