

# silitop<sup>®</sup> barreira



## TECHNICAL DATA SHEET

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silitop  
barreira

damp proofing

rising damp barrier



## use

Silitop Barreira is a product which is injected into walls suffering from rising damp. Silitop Barreira forms a chemical barrier which impedes humidity rising from the ground.

Silitop Barreira penetrates into the surfaces it is applied to, even those with high levels of damp. The damp proofing enters the fine capillaries and fully penetrates regardless of the thickness of the wall.

It is easy to apply and no specialized labour is required. Just inject and gravity does the rest.

## surface

- All mineral materials used in construction, such as concrete, cement, brickwork, stone, etc.



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## recommendations

Do not use as a seal for water under pressure.

Ventilate the area well for a few days after application.

The product should always be applied to brickwork visible above the ground.

For buried brickwork, the product should be applied 15 cm above ground level.

Drainage work can be undertaken either inside or outside the wall.

With very thick walls, holes should be drilled on either side.

Drilling should be carried out at joints as the dispersion of Silitop Barreira is more effective at these points due to increased capillary action.

Before doing the drilling shall ensure the passage of pipes.

## composition and characteristics

### Composition:

Permeation materials, synthetic resins.

### Characteristics:

No toxic substances

Bulk density: 980 kg/m<sup>3</sup>

Viscosity: 7 mm<sup>2</sup>/s

pH: 6

Combustion point: 25 °C

## colour

Yellow

## consumption

1 to 2 lt of Silitop Barreira/metre (Non Diluted), for a wall 50cm thick. Consumption will depend on the thickness of the wall and the type of material it is made of.

## available in

Bidon 1L, 5 L.

## storage

12 months in a sealed package, stored in a damp free environment and away from the sun.



## preparation of surface

Cement coverings which are in poor condition, loose or with a high salt content should be first chipped away to a height of 50 cm above the damaged area.

The quantity of Silitop Barreira to be applied depends on several parameters such as: Thickness and the amount of damp in wall and the porosity of the materials.

The following table indicates the number of holes, the distance between them, the number of times necessary to refill the cartridge as well as their consumption Silitop Barreira (these values are merely orientative).

Wall Thickness (cm)	Nº of holes	Distance of holes (cm)	Number of times cartridge should be filled	Consumption Solution (ml/hole)
14	10	10	1	300
38			2-3	750
51			3-4	1000



The angle of the hole should be 45° inclined downwards and with a diameter of 12 mm.

## application - marking

With the assistance of a spirit level and a ruler, draw a continuous line 15 cm above the paving level. The drill holes will be marked on this line.



## application - drilling

Using a 10-12 mm diameter drill bit, drill the holes at an angle of 45°.

As an alternative, the holes may be drilled on a zigzag instead of on a straight line.



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## application - recipient

Insert the cartridges into the holes with their point already cut off.

Open the Silitop Barreira recipient and mix with water at a ratio of 1 litre of Silitop Barreira to 10 litres of water. Mix well and place this solution into the respective cartridges.

The transfusion time is variable and will obviously depend on the materials, their porosity and the saturation level of the wall itself, and may vary from several hours to several days.

With the aim of increasing the reactivity of the system and promoting increased water repelling properties, inject Silitop 24 hours after the total absorption of the Silitop Barreira.

The reaction of Silitop Barreira with the surface it has been applied to will occur 4 to 10 weeks later. With a wall 36 cm thick, the drying time is approximately 18 to 24 months, in other words around 1 – 1.5 cm/month.

With double walls, Silitop Barreira should be applied to both walls.

To finalize the process of injecting Silitop Barreira solution, remove the cartridges and fill in the holes using a mortar - Topeca Sane.



## possible coverings

Topeca Sane, paints which are permeable to water vapour (e.g. silicate paints)