



Hydrophobic Chemical DPC for Suppressing Rising Dampness Through Stone or Clay Brick Masonry Walls, Older or Heritage Structures

General

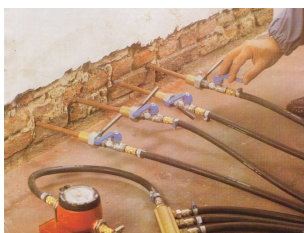
Masonry or clay brick walls, wick moisture from the ground, which rises up through the capillaries in the masonry blocks as well as the joints. The absence of or faulty installation of a Damp Proof Course (DPC) usually allows moisture and salts to rise through the masonry. This phenomenon manifests as rotting woodwork, peeled off paints, damaged plaster and presence of efflorescence on the walls. This can be remedied by the installation of a chemical DPC into the wall.

SS - WaterStop DPC is a one component, solvent free, low viscosity chemical DPC, that impregnates deep into the masonry and creates a hydrophobic and salt resistant chemical layer, preventing the rise of moisture from the ground into the masonry structure. **SS - WaterStop DPC** lines all the capillaries in the masonry system (both blocks as well as joints), rendering them hydrophobic and resistant to capillary absorption. The material is often used with a catalyst to improve performance.

The material (with catalyst) cures in the masonry wall, irrespective of the moisture or salt content in the wall. Once installed, the masonry area above the installed chemical DPC dries out over a few weeks, and can be further treated for a damp free surface. **SS - WaterStop DPC** works with neutral pH of stones, as well as the alkaline pH of mortars. For aggressive dampness it is recommended to use a second component accelerator for **SS - WaterStop DPC**.

Product Features

- Hydrophobic Chemical DPC
- Low Viscosity
- Penetrates Masonry Blocks or Joint Mortar deeply
- Solvent Free
- Wets masonry surfaces very well ensuring excellent coverage
- Works with both neutral media like natural stones or alkaline media such as cement joints, or clay bricks
- Cures well in both dry as well as wet walls
- Cured material remains unaffected by water, alkalis or salts



Areas of Application

- Old Building Basements
- Any Brick Structure
- Any Masonry Structure
- Heritage Structures (palaces, old forts, hotels, etc.)
- Masonry touching gardens / plantations, wet soil
- Porous construction materials like stones and plasters
- Structures built on high water-tables
- Bathroom walls
- Brick Partition Walls
- Boundary Walls
- Underslab Treatments in Load Bearing Brick Walls
- Impregnation of clay bricks

Areas of Application

Specification Keywords	Hydrophobic, Chemical DPC, Low Viscosity, Deep Penetrating, Blocks Rising Dampness and Salts, Solvent Free
Delivered As	SS - WaterStop DPC: Low Viscosity Cloudy Liquid; SS - WaterStop DPC Catalyst: Liquid
Storage Instructions	Store in a cool, dry area away from sunlight in original tightly sealed containers
Shelf Life	12 months
Post Use	Empty packaging completely. Dispose as per local regulations. Refer MSDS for suggestions.
Packing Size	20 kg, 30 kg



Hazards and Safety



Technical Data

Sp. Gravity	0.95 +/- 0.05
Re-Injection Time	1 to 2 hours
Surface ready for use	Drying out time for wall - about 2 to 3 weeks
Consumption	As per requirement, based on absorption of the wall
pH	> 7.0

Instructions for Use

Completely remove the plaster / render in the damp or affected area. The chemical DPC needs to be introduced at the lowest possible point in the wall for the treatment to be effective. Holes 12-15 mm in diameter are drilled maximum 10-15 cm from the bottom of the wall. The holes need to be drilled at an angle of 30 to 45° from the horizontal, ensuring both the masonry unit and a mortar joint is intersected. Drill the hole to 90% of the wall thickness or 25 mm away from the outer edge of the wall, whichever is higher. In case the wall is more than 50 cm in thickness, it is advisable to drill from both sides of the wall. The holes have to be drilled in a zigzag pattern, with both the vertical and horizontal spacing between the holes kept at 1/2 the thickness of the wall. In any case do not exceed the spacing beyond 15 cm, vertically or horizontally. Please refer to pictograph below. Clean the drill holes using compressed air or flushing with water.

Once the holes are drilled and cleaned, insert plastic packers or tubes into the drilled holes and secure them with a cement putty. **SS - WaterStop DPC** can then introduced through the packers into the wall, by means of a low pressure pump, or by gravity using a plastic squeeze bottle. Allow the material to saturate and impregnate the wall till there is no more absorption of the material. Wait for a day and repeat the process to ensure the penetration of the chemical DPC into the masonry and joints is complete. If needed, introduce Catalyst of **SS - WaterStop DPC** till rejection in a similar manner. Remove the packers and seal the holes with a polymer modified mortar. Allow the wall to dry out completely over the next few weeks. Once dry, the wall can be treated with a crystallisation based coating, followed by a waterproof, breathable plaster for a dry, damp-proofed wall.

Safety and Precautions

- Take suitable safety precautions at all times. Always wear protective goggles, safety shoes, masks and gloves.
- If inhaled, move immediately to fresh air. In case of skin or eye contact, flush immediately with water for 15 minutes.
- Remove contaminated clothing and shoes and call a physician.
- Clean up promptly after job is complete. Clean equipment with water and allow to dry in a well-ventilated area. Allow rags etc. to dry in a well-ventilated area out of the reach of children and pets.
- Local, state and federal regulations should be consulted for proper disposal procedures.

