FREEZTEQ®
FROZEN DAMP PROOF COURSE SYSTEM

Installation Guide

Freezteq Damp Proof System

Before Application

1 Preparation

Preparing the Freezteq Original sticks

Before any installation the Freezteq sticks must be placed in a freezer for a minimum of 48 hours. The sticks must be completely frozen solid. They cannot be applied or cut until they have reached this state.

Preparing the internal/external wall

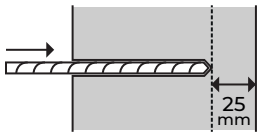
Any defective wall finishes must be removed to a minimum height 300mm above the level of the 'salt line', or 1 metre above the original DPC, whichever is the higher of the two.

If you are reinstating the finishes with the Freezteq Breathable Render System, then the mortar of both vertical and horizontal joints must be scraped out to a depth of approximately 2cm. Any damaged or defective areas of the substrate (such as damaged bricks or stones) must be replaced. Damaged surfaces should be reprofiled.

2 Drilling

Drilling specification

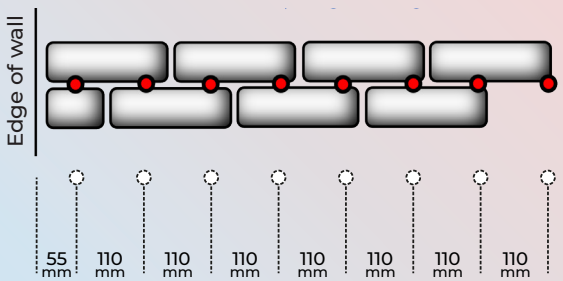
- Drilling may be carried out either internally or externally.
- The drilled holes should be made with a 22mm dia. drill bit.
- When drilling into the wall, the hole should be to a depth of 25mm of the opposing face. (As shown.)



Spacing the drill holes

- The first hole must be drilled 55mm from the wall's edge.
- The second and subsequent holes must be drilled 110mm apart. (Measurements must be taken centre to centre of each hole). (See Figure 1.)

Typical horizontal drilling pattern in mortar joints:
Holes drilled at 110mm centres with first hole 55mm from walls edge.



Typical drilling pattern for dense rubble stonework

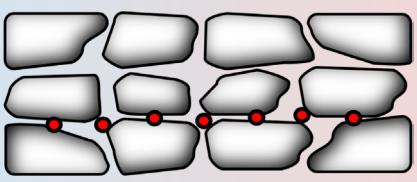


Figure 1.

The height of the drill holes above ground level

External Applications

- a minimum of 150mm above ground level.

Or

- one mortar course above the existing DPC that has ceased to be effective.

In certain circumstances, such as where there is a high probability of significant rainfall splashing up the wall, it may be necessary to consider the use of Freezteq ADP-10 below treatment line.

Internal Applications

Solid concrete floors

If the internal floor is of solid construction and the holes are to be made from the internal side, drill the holes as close as is possible to the solid floor's surface, or in to the first horizontal joint above the internal floor's surface. (Figure 2.)

Suspended wooden floors

If the internal floor is a suspended floor and the holes are to be made from the inside, drill the holes as close as is possible to the suspended floor's surface, or in to the first horizontal joint above the internal floor's surface (when unable to get access below the suspended timber floor, Figure 3).

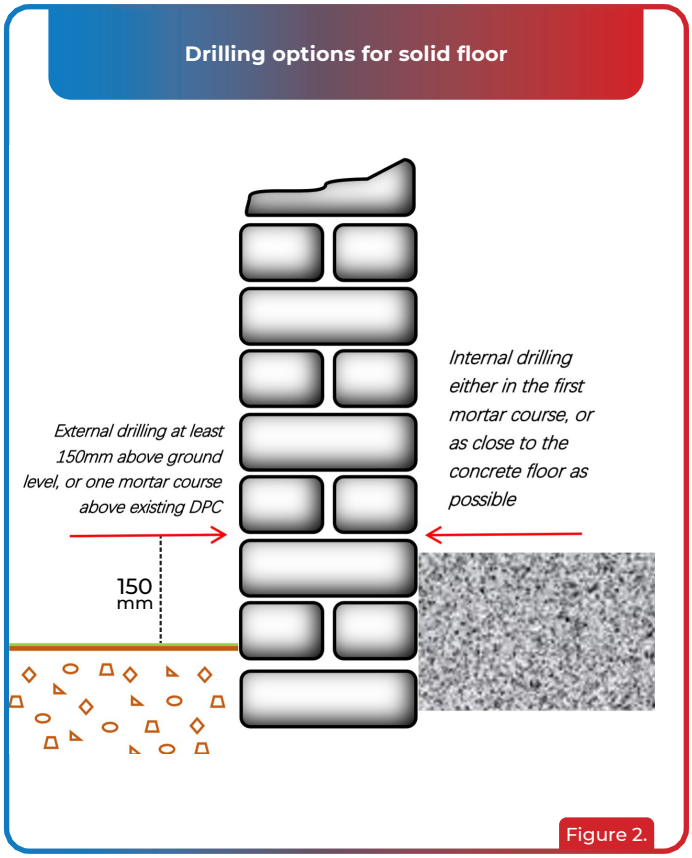


Figure 2.

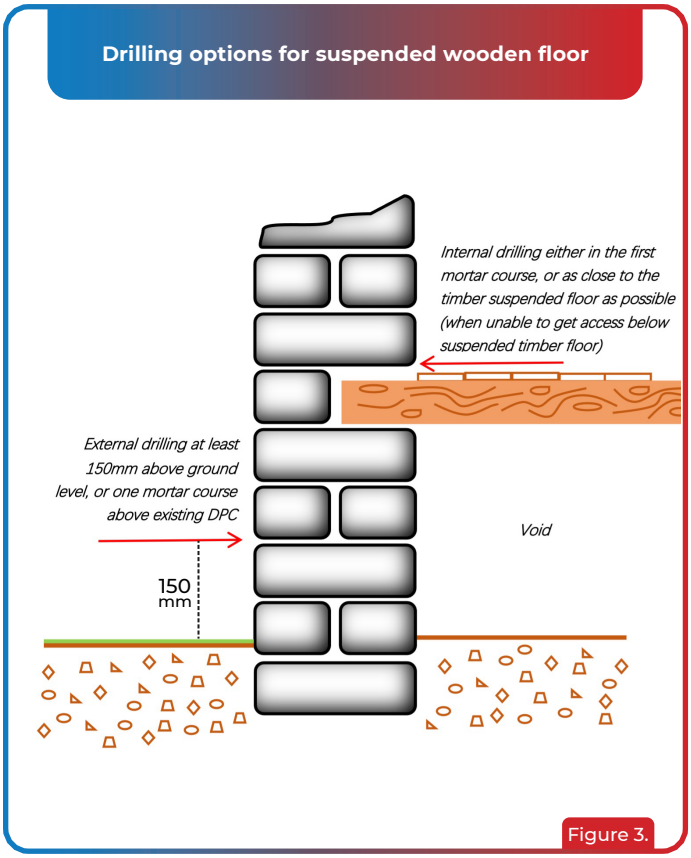


Figure 3.

Ref: FTQ-IG-020525-02

Installation

3 Product application

General Application

The frozen Freezteq Original stick can be removed from the sachet simply using a pair of scissors or a knife.



Push the frozen stick of Freezteq Original into the pre-drilled hole. The sticks should be pushed completely into each pre-drilled hole. Sufficient sticks must be used to fill the hole. The number of sticks used is dependant on the thickness of the wall. If a whole stick cannot be inserted completely, break the protruding part off and use it in the next hole.

When all holes have been filled completely, this is classified as one application. Once the first application has completely melted, the process is repeated until a total of four applications have been made within the holes.

Once the first application has been made, the remaining three applications should be made within a 24-hour period. Beyond this time frame there is a higher probability of the treated substrate trying to refuse the final applications of Freezteq Original, thus limiting the efficacy of the treatment.

250 Freezteq sticks will typically treat an approximate length of between 5.75 and 6.0 metres of 225mm thickness wall. Please note usage is dependent upon environmental, structural, and other conditions

Vertical Application

Where a Freezteq Original application is adjoining another structure, it may be necessary to install a vertical DPC.



Additional holes should be drilled vertically to a height of 1.2m-1.5m following the mortar line. Once this has been completed, four applications of Freezteq Original are to be carried out as previously described.

Drilling pattern for vertical application

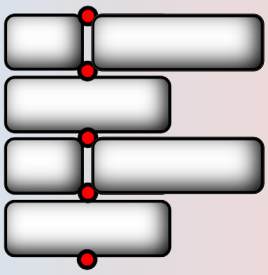




Figure 4.

Ref: FTQ-IG-020525-02

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Remedial Work

Following the Freezteq Original installation, holes must be filled using an appropriate strength mortar to maintain the structural integrity of the wall. Independent technical advice should be sought with regards to the integrity of the structure.

Reinstatement of finishes should be undertaken using the Freezteq Breathable Render System.



Notes:

Standards may vary from region to region. The user should make contact with their local approval body prior to carrying out any work so as to ensure they are fully compliant with any standards that are enforce.

With any Freezteq products users should, prior to applying them, carry out trials and appropriate testing under project conditions to satisfy themselves as to the product's suitability, ensuring that it meets all expectations for the project in question. Particular attention should be made with regards the trials and testing of Freezteq coating products. The user must be satisfied that there is sufficient adhesion between the parent structure and the coating which is being applied prior to commencing the works.

Please read this installation guide carefully before installing any Freezteq products.

This installation guide should be read in conjunction with the material safety data sheets prior to the handling of using the Freezteq products. The full recommended personal protection equipment (PPE) must be worn at all times when handling the products.

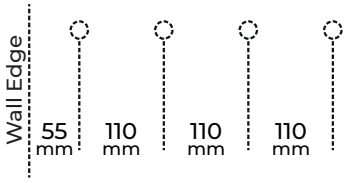
Quick reference guide to application

a Freeze sticks for a minimum of 48 hours



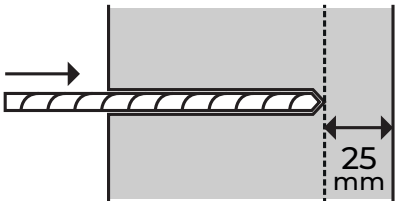


b Holes drilled 110mm apart...

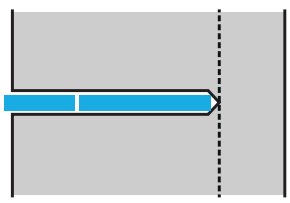




c ...to 25mm of opposing face



d Use sufficient sticks to fill each hole





e 4 applications of Freezteq within a 24 hour period

x4



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