

Description

FreezTEQ Original is a retrospective damp proof course system designed to stop the passage of moisture travelling up the lower part of walls and other ground supported structures, often referred to as rising damp.

FreezTEQ Original works by reversing the natural processes of capillary action. Capillary action itself is caused by three forces: adhesion, cohesion, and surface tension. Within a capillary that is experiencing rising damp, the adhesive water molecules are more powerful than the cohesive molecules, and the surface tension keeps the water as a body. The adhesive molecules are more attracted to other surfaces, in this case the capillary walls. This attraction, or adhesion, causes the water to rise up the capillary.

When the FreezTEQ Original sticks melt, the active ingredients within the product slowly diffuse throughout the structure, and are then deposited on the walls of the capillaries. These ingredients can be described as 'hydrophobic' meaning that they repel water. The effective dosage of the product, and the highly important controlled release of the active ingredients into the capillaries, ensures that the aforementioned forces are disrupted, and the rising damp ceases.

Identifying rising damp

Identifying rising damp is equally as important as effectively treating the problem. Damp can take many forms, such as penetrating damp or condensation. Misdiagnosis of the problem can lead to costly ramifications at a later date.

Rising damp is usually identified by a 'tide mark'- a line along the length of the wall that is thought to be experiencing rising damp. This can be at any height, depending upon a number of factors. Rising damp typically permeates to a height of around 1200 mm to 1500 mm above ground level.

Advantages

Technical advantages

- It is non-pressurized – this limits the potential damage that some pressurized systems can create.
- Easy to quantify the exact amount required to treat a wall.
- Using the same medium to carry the active ingredients, namely water, it targets exactly where the problem is.
- Still allows the structure to breathe as normal.



Practical advantages

- Simple and quick application.
- External or internal application.
- Versatile - can treat a variety of masonry types and wall widths.
- No specialist equipment needed.
- Odourless.
- Non-flammable.

Physical and mechanical properties

Appearance	Transparent liquid
Packaging	1 box contains 250 sachets
Storage	Store in a cool, dry place, away from acids
Shelf Life	12 months
Other	Non-flammable, odourless
<i>For further information refer to the SDS</i>	

Installation

Preparation

Handling the Freeztec Original Stick must be conducted whilst wearing the full recommended Personal Protection Equipment. The Safety Data Sheet must be read prior to using the product.

Prior to any installation the Freeztec Original sticks must be placed in a freezer for a minimum of 48 hours, remaining there until the sticks are completely frozen solid. They cannot be applied or cut until they have reached a solid state.

250 Freeztec Original sticks will typically treat an approximate length of between 5.75 to 6 metres of a 225 mm thick wall.

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

Drilling

Drilling can be carried out either internally or externally. The drilled holes should be made with a 22 mm dia. drill bit.

When drilling into the wall, the hole should be to a depth of 25 mm of the opposing face. The first hole must be drilled 55 mm from the wall's edge, and then 110 mm apart thereon in. (Centre to centre of each hole).

Holes drilled on the external wall face should be a minimum of 150 mm above ground level, or one mortar course above the existing DPC. 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 the treatment line.

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 possible to the solid floor's surface, or in to the first horizontal joint above the internal floor's surface.

If the internal floor is a suspended floor and the holes are to be made from the inside, drill the holes as close as possible to the suspended floor's surface, or in to the first horizontal joint above the internal floor's surface. (where access is restricted beneath the suspended floor).

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 of FreezTEQ Original 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 3 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.

Vertical application

In such circumstances where a FreezTEQ Original application is adjoining another structure, it may be necessary to install a vertical DPC.

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

Remedial work

Following the FreezTEQ Original application, 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.

Consumption

250 FreezTEQ sticks will typically treat an approximate length of 5.75 to 6 metres of 225 mm thickness wall.

Storage

The product should be used within 12 months of the date of production marked on the packaging.

Any product that is stacked should be done so in a stable manner, and to a safe height. The stacking of product should be carried out in such a manner that it does not create any risk of product falling and accidentally bursting the packaging open.

Packaging

FreezTEQ Original is supplied in boxes of 250 sticks.

Handling and Health & Safety

The Manufacturer maintains comprehensive and up-to-date Safety Data Sheets on all its products. Each sheet contains health and safety information for the protection of workers and customers. The Manufacturer recommends you contact Manorteq Ltd or your local FreezTEQ Technical Representative to obtain the latest copies of Safety Data Sheets, which must be read prior to product storage or use.

Waste disposal

Dispose of at a licensed waste facility accepting material of this nature. Dispose of all materials in accordance with current regulations / legislation.

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.

Warranty

Manorteq Limited (Company No. 13817118) warrants to the purchaser that the products supplied by it shall be free from material defect. Should any of the products be proven defective, the liability to Manorteq Limited shall be limited to (at the choice of Manorteq Limited) either replacement of the proven defective products ex-factory, or refund of the NETT ex-factory purchase price at the date the proven defective products were supplied. Manorteq Limited will not be liable or responsible, to such an extent as permitted by law, for any consequential or direct damages, compensation, costs, expenses, losses or other liabilities that may occur as a result of the defective products. Manorteq Limited makes no warranty as to the merchantability or fitness for a particular purpose and the terms of this warranty are in lieu of all other warranties expressed or implied by law.

Please note: This Technical Data Sheet is for general guidance only. It does not constitute as a detailed guide for a specific application. Due to the unique circumstances of every site, each installation must be assessed on a project-by-project basis as there may be many variables to consider. Independent professional advice should be sought on each installation. The information contained within this Technical Data Sheet is to the best of Manorteq Limited's knowledge and belief, accurate and reliable of the date indicated. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness.