



DRYZONE[®]

TARGETED TREATMENT FOR RISING DAMP

Internationally tested by:



The World's Most Rigorously Tested Rising Damp Treatment

Quick to Install - Unrivalled Performance

The Problem

Whenever Rising Damp is diagnosed it is important to have the condition correctly treated, as failure to do so can cause damage and devaluation to any property.

It is not sufficient to simply cover up the problem with a special paint or coating in the hope that the problem will go away. Only by preventing the dampness rising up the wall in the first place can rising dampness be adequately controlled.

Chemical Treatments

Until the introduction of Dryzone the most widely employed method of achieving this was to inject water-repellent fluids into the wall under pressure.

Although this method has proven to be effective, it is known to have a number of disadvantages; for example, it introduces large amounts of liquid carrier into the wall, prolonging the drying out period. The process is also very slow and operator dependent.

The Dryzone System is fast, clean and effective

The introduction of the patented **Dryzone Damp-Proofing Cream** has revolutionised the treatment of Rising Damp. The Dryzone cream is introduced by means of a simple applicator gun into a series of holes drilled into the mortar course. Once Dryzone is installed, it diffuses to where it is most needed before curing to form a water-repellent resin.



Dryzone has many advantages over conventional chemical injection systems

- Quick to install - no "double drilling", no waiting for fluid to soak in under pressure
- Easy to install - less scope for operator error
- High strength formulation - does not introduce large volumes of liquid carrier into the wall
- Low hazard - non-caustic, non-flammable and not injected under pressure
- Spillage and mess virtually eliminated - no problems with fluid flooding through party walls
- Consistent application rate - easy to estimate the amount of material that will be required
- Does not require an electric DPC pump - can be used in situations where power is not available

Superior Performance

Dryzone has been tested by numerous European test houses and undergone extensive in-house testing. Results have proven that Dryzone is highly effective in a wide range of conditions and types of walls, and show that Dryzone provides:

- Superior performance to competing products
- High performance even in old mortar and masonry, such as that found in Victorian buildings
- Effective treatment for cavity, rubble-infill and single leaf construction walls

Dryzone is also effective in situations where the wall is:

- Highly saturated
- Cold or warm
- Very porous
- Of high or low alkalinity
- Constructed using cement or lime mortar

The high performance formulation of **Dryzone Damp-Proofing Cream** is trusted by professional installers around the world. To date over 2 million tubes of Dryzone have been sold, enough to successfully treat rising damp in over 13 million metres of 4½" wall.

FAST • CLEAN • EFFECTIVE

Installation

1. Drilling

First create a series of horizontal drill holes along the mortar course. Typically these are 12 mm holes at 120 mm intervals - refer to the Dryzone application instructions for details for particular wall thicknesses.



2. Preparation

Insert a Dryzone cartridge into the applicator gun, ensuring the pressure piston is fully extended. Cut into the end of the cartridge so that cream will be able to flow freely. Screw the nozzle cap back onto the gun.



3. Injection

Fully insert the nozzle into the first drilled hole, and then inject Dryzone cream while withdrawing the nozzle at a steady rate. Stop injecting just before removing the nozzle from the wall. Repeat for remaining holes.



For full instructions including guidance on replastering see our guide to *"Rising Damp and its Control"*. This can be downloaded free of charge from:

www.safeguardeurope.com/rising-damp-guide

Usage Chart for Dryzone (600 ml Cartridges)

Wall Length	Wall Thickness			
	4½" (115 mm)	9" (230 mm)	13½" (345 mm)	18" (460 mm)
10 m	1.5	3.3	5.1	6.9
20 m	3.0	6.6	10.2	13.8
30 m	4.5	9.9	15.3	20.7

Note: different site conditions may cause slight variations. Allow an extra 10% when estimating. The online calculator at www.dryzone.eu can be used to work out the required amount of Dryzone.

Replastering

No rising damp treatment, no matter how effective it is at creating a barrier to damp, will be able to undo any groundwater salt transfer damage to the wall or to existing plaster. In cases where groundwater salts have already caused decorative spoilage or created persistent damp patches it will be necessary to replaster.

The diagram below illustrates a typical traditional replastering solution. Depending on the situation and time constraints, Safeguard recommend three replastering methods:

- Traditional - **Dryzone Damp-Resistant Plaster**
- Hybrid Plasterboard - **Dryzone Express Replastering System**
- Membrane - **Drybase Flex Membrane**

For further information download our free guide **Rising Damp & its Control:**
www.safeguardeurope.com/rising-damp-guide



Install Damp-proof Course
Install the new damp-proof course using either Dryzone DPC Cream or Dryrod DPC Rods.



Apply Scratch Coat
Apply a rough coat of at least 5 mm thickness. This will act as an anchoring layer.



Apply the Plaster Coat
Once the rough coat has become firm, apply the plaster again with a thickness of at least 15 mm - 20 mm.

Finishing Coat
Apply the final skim coat using a suitable skim plaster.



Prepare the Wall
Remove damp/salt contaminated plaster.

The Most Tested Damp-Proofing Cream on the Market

Getting It Right First Time

All methods of damp treatment cause disruption to the occupants of the affected building. It is therefore important to choose a treatment that will work first time around and avoid the need for re-treatment.

Dryzone has been formulated to provide an effective barrier to rising damp even in hard to treat situations such as walls constructed using lime mortar, rubble-filled walls, and highly saturated walls.

The effectiveness of Dryzone has been **tested under more conditions than any other rising damp treatment on the market** – providing assurance that it will work in walls of all types:



BBA:
British Board of
Agrément

As well as passing the old BBA MOAT test, Dryzone has passed the latest, more severe damp-proofing test demonstrating effectiveness even in saturated walls.

Certificate number:
97/3363



WTA:
Wissenschaftlich-
Technische
Arbeitsgemeinschaft

Approved by the German WTA for use as a rising damp treatment in **highly saturated walls (up to 95%)**. Testing was carried out in test walls using an alkaline lime-based mortar.

Certificate Number:
PB 5.1/08-358/1



University of Portsmouth

Test report compares Dryzone's performance to that of a low-strength, economy damp-proofing cream, demonstrating the far higher efficacy of Dryzone over low strength cream.

Professor Mel
Richardson, February
2008



Wetenschappelijk en
Technisch Centrum voor
het Bouwbedrijf

Testing by the Belgian WTCB showed Dryzone to be very effective at varying levels of capillary saturation. Substrate diffusion characteristics and moisture absorption reduction are rated as very efficient.

Report Number:
622X646-11



OFI: Österreichisches
Forschungsinstitut

In Austria Dryzone was applied to **an entire school building** with rising damp. Testing found it to be a **highly effective treatment**, reducing the maximum moisture content of the walls. Final results far exceeded the pass requirement of the Austrian standard Ö-NORM B 3355.

Report Number: 403.275



ITB: Instytut Techniki
Budowlanej

The Polish technical institute tested Dryzone's effectiveness and material spread in a ceramic **brick, lime-cement mortar wall**. Results showed a substantial initial drop in moisture content that increased to a **97% moisture reduction over 3 months**.

Report Number:
0976/11/R12NM



ÉMI: Építésügyi
Minőségellenőrző
Innovációs

Testing by the Hungarian EMI confirmed Dryzone's efficacy in saturation reduction, establishing the damp-proof barrier is effective in 95% saturation conditions.

Report Number:
0976/11/R12NM



Safeguard Europe Ltd

In-house tests at Safeguard have covered test conditions not usually included in standard international tests. These have proven Dryzone's efficacy for **high and low temperatures, rubble-infill walls and salt water conditions**.

Precautions

Read instructions and health and safety data sheet (available upon request) before use.

Guarantees

Call Safeguard on **01403 210204** for details of specialist contractors who offer guarantees on Dryzone installations.

Further Information

The Dryzone manual "Rising Damp and its Control" is available upon request, or can be downloaded free from our website:

www.safeguardeurope.com/dryzone

www.dryzone.eu



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