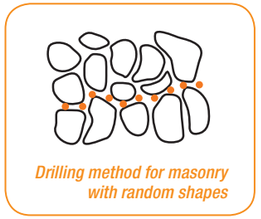
For masonry with random shapes:



Drilling method for masonry with random shapes

As far as practically possible follow the mortar course at the appropriate selected level 80mm apart.

For walls missing mortar:

If there is too much mortar missing in the mortar bed, inject a thick layer of Tech-Dry DPC Cream over the horizontal surface of the bricks at the mortar joint being treated where the mortar is missing.

Some walls in poor condition may not be suitable for DIY Tech-Dry DPC Cream damp-course system. These walls include:

- Walls that are too wet (the drill dust generally shows appearance of wet sand)
- Walls with damaged bricks/stone/mortar due to serious rising damp or weathering
- Walls that are too difficult to access.

Tech-Dry DIY silicone damp-course fluid is also available as an alternative to Tech-Dry DPC Cream. Please call Tech-Dry Building Products 1800 Tech-Dry (1800 832 437) for further advice.

POST TREATMENT

After the new damp-course is installed the wall should be allowed to dry for up to 6 months before rendering/plastering/painting is carried out. You may leave the holes in the internal walls un-plugged or you may plug them with a cement/sand mortar (1:3) after the damp-course installation. If the wall was previously rendered, it can than be rendered. It is important that you use a cement/sand render with cement/sand ratio of 1:3. It is important to use Tech-Dry Salt Retarder admixture.

Please contact Tech-Dry Building Products for further advice.

SAFETY

Tech-Dry DPC Cream is a non-hazardous material according to the criteria of Worksafe Australia. However good hygiene procedure should be followed when using this product. Avoid skin and eye contact. Wear suitable gloves and glasses. Use in a well-ventilated area away from ignition sources.

KEEP OUT OF REACH OF CHILDREN.

EMERGENCY CONTACT: (03) 9699 8202.

FIRST AID

If skin or eye contact occurs, immediately flush with water for 15 minutes. Seek medical attention if irritation persists

STORAGE

Store in a cool and dry place below 30 deg away from ignition sources. Do not allow to freeze. The product should be used within the use-by-date.

IMPORTANT NOTE

The information given in this brochure is based on many years of experience and is correct to the best of our knowledge.

We reserve the right to alter certain product parameters within the spectrum of properties in order to keep abreast of technical advances.

As the storage, handling and application of this material is beyond our control, we can only be responsible for the quality of our product at the time of dispatch.

It is the responsibility of the end user to determine the suitability of this product for any particular application.

We strongly recommend that the end user test the product before application.

For further information, please contact Tech-Dry Building Products.

RE-ORDERING & OTHER PRODUCTS

For re-ordering product and to view our full range of Tech-Dry Building Products please visit us at: **www.1800techdry.com.au** or phone **1800 TechDry** (1800 832 437).

Also available from Tech-Dry Building Products:

Salt Retarder - For post wall treatment. The inclusion of Tech-Dry Salt Retarder admixture inhibits the migration of residual salts through new renders. Salt Retarder is a 3 in 1 admixture which waterproofs, salt-proofs and plasticises sand/cement renders. Available in both 5 Litre & 20 Litre quantities.

NO MORE GRAFFITI

Tech-Dry No More Graffiti is a leading Anti-Graffiti product range from Tech-Dry. No More Graffiti Sacrificial Coating forms a thin non-visible film between the surface to be protected and the graffiti. No More Graffiti Biodegradable Remover will remove graffiti fast and efficiently from most types of surfaces.

PROTECTASEAL
PROTECTION AGAINST STAINING

Protectaseal S - No More Stains is a new generation of impregnating sealer from Tech-Dry. A water and oil repellent sealer that resists staining for permeable materials such as natural stones, sandstone, concrete pavers, clay bricks, and terracotta tiles etc.

Tech-Dry®
BUILDING PRODUCTS

Phone: 1800TechDry

(1800 832 437)

www.1800TechDry.com.au

7/18 Abel St Penrith NSW
PO Box 4124 Penrith Plaza, Penrith NSW 2750

Fax: (02) 9423 4621

Tech-Dry®
BUILDING PRODUCTS

NO MORE RISING DAMP™

CREAM SYSTEM
INSTALLATION INSTRUCTIONS

AUSTRALIAN MADE

DIY Damp Coursing System

Damage caused by rising damp

WHAT IS RISING DAMP?

Rising damp is a common phenomenon in many masonry buildings causing significant damage to buildings. Moisture containing salt from the ground can rise up the capillaries of masonry building materials such as brick, stone and mortar joints of walls. Capillary rise is a natural phenomenon, which can only be stopped by the introduction of an impermeable horizontal barrier in the base of the wall. This barrier is commonly called a damp-course.

APPEARANCE OF RISING DAMP

Rising damp occurs in many solid brick and stone houses that have no damp-course or lack an adequate damp-course. Commonly it occurs in most Victorian and Edwardian structures and Californian bungalows. However rising damp also occurs in many modern brick veneer walls below the floor level where the bricks are not protected by an existing damp-course.

For internal walls rising damp exhibits as:

- Peeling and bubbling paintwork.
- Water tide mark or staining.
- Presence of salt on walls.
- Flaking plaster and render.
- Rotting skirting and floorboards.
- Musty room smells.

For external walls rising damp exhibits as:

- Fretted brickwork.
- Water tide mark or staining
- Presence of efflorescence or salt.
- Peeling and bubbling paintwork.
- Crumbling bricks and missing mortar.

HOW TO FIX RISING DAMP

The common method used to fix rising damp is to install a new damp-course by cutting the walls or pressure injecting or gravity feeding water repellent materials (e.g. silicones) into the walls. These methods are expensive and complicated and may only be properly conducted by professional contractors.

Tech-Dry DPC Cream is a simple and economic alternative. Tech-Dry DPC Cream is an innovative silicone cream formulated as a water based cream containing 80% active silicone that can effectively form a permanent silicone damp-course within masonry walls. Refer to the following instructions on how to install your Tech-Dry DPC Cream damp-course.

TECH-DRY DPC CREAM INSTRUCTIONS

STEP 1

Identify the rising damp by referring to the information shown in the previous panel. You may need to arrange for professional damp inspection.

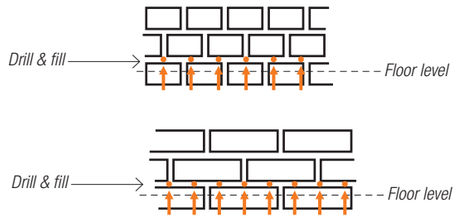
Exclude any other types of damp that may be caused by penetrating damp or leaking pipes, roof or shower sources. These damp sources may require a different type of treatment.

STEP 2

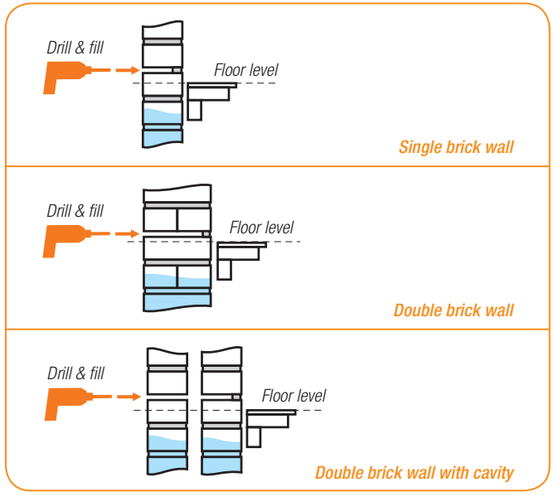
If the damp-course is installed from the inside carefully remove any skirting boards present to reveal the lowest mortar course just above floor level.

If outside, locate a mortar joint at a position normally 150mm above the ground level, or just above floor level so both sides of the wall are evident.

Mark holes at approximately 80mm apart so that 3 holes should be drilled into the mortar bed of each length of brick of approx. 230mm. Avoid drilling holes directly above vertical mortar joints of brick walls.



Drilling method



STEP 3

Set the drilling depth at about 10mm less than the wall thickness. Drill 12mm holes into the mortar bed using a hammer drill.

STEP 4

Completely remove the dust from the holes using a vacuum cleaner fit with a proper adapter that can suck the dust from the inside of the holes. It is important that NO drill dust is left in the holes!

STEP 5

Fit a plastic nozzle to the DPC Cream caulking tube. Once attached fit plastic tube extension to nozzle. Cut to a proper length to suit the wall thickness.

STEP 6

Inject Tech-Dry DPC Cream slowly into each hole using a standard caulking gun. Extend the nozzle of the gun to the rear of the hole and slowly withdraw the nozzle as the cream fills the hole. Make sure holes are filled fully with the cream and avoid any bubbles or hollows when filling.

CONSUMPTION RATE

Each hole should be filled with approximately 12ml of the Tech-Dry DPC Cream for a single brick wall. Therefore the consumption of Tech-Dry DPC Cream should be approximately 150ml per metre of single brick wall or 300ml per metre of double brick wall per fill.

AFTER CREAM INJECTION

The Tech-Dry DPC Cream in the holes may take up to 24 hours or more to be fully absorbed by the mortar bed and the bricks. After the cream is absorbed, there should be a continuous horizontal absorption mark (wet mark) in the treated mortar and bricks above and below the treated mortar bed. If the Tech-Dry DPC Cream penetration has not reached the mortar in the middle of the two holes, a second injection of Tech-Dry DPC Cream may be required using the same holes.

The treated wall may take several days after the cream is absorbed to become a water repellent barrier (new silicone damp-course). The wall should then be allowed to dry before further renovation is carried out.

FURTHER INFORMATION

Due to the inherent variation of masonry walls, it is important that the applicator should carry out investigation and perform a trial before application to examine the suitability of Tech-Dry DPC Cream for the purpose.

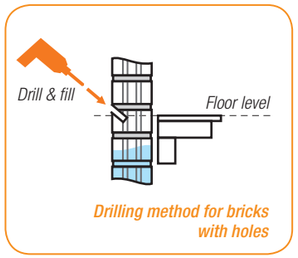
If the installation is carried out externally, do not apply if rain or extreme weather conditions are expected. Salts and loose mortar or brick particles should be removed from the surface of mortar joints and adjacent bricks to be treated.

Tech-Dry DPC Cream is suitable for any brick or masonry walls that have mortar joints. However the following walls may require special care:

For double brick wall with cavity:

Measure the cavity thickness so that you do not lose too much cream into the cavities during injection. Do not inject cream into the cavity.

For bricks with holes:



Drilling method for bricks with holes

Drill at a 45 deg angle into the holes in the brick to inject the Tech-Dry DPC Cream, which will then penetrate into the mortar bed below that brick layer (as shown in the diagram). The amount of cream injected should be equivalent to that of a normal brick wall.