

TECHNICAL DATA SHEET

DAMP PROOF INJECTION FLUID

Issue 2 – October 2015

- Description:** A solvent based Aluminium Stearate Solution specially developed for use in creating a chemical damp proofing course in walls above ground where an existing DPC has broken down or an orthodox DPC is missing.
- Method:** Select the course to be treated this should be at least 150mm above external ground level (BS Code of Practice 102). Unless structural considerations prevent doing so it is important that the DPC should be below the level of any timber floor installation should be in accordance with BS 6576: 2005+A1:2012 Code of Practice for installation of chemical DPC. Always ensure adequate ventilation and through draft.
- Preparatory Works:** Expose the line of the proposed DPC by removing all external render. Lower external ground levels where necessary without affecting the structural stability of the wall. Remove skirting and fixings and put to one side, if sound, to be re-fixed. Inspect associated flooring timbers and joinery for fungal decay and treat if necessary. Plaster should be removed to a minimum height of 1 metre or 500mm above the last visible evidence of dampness. Advise interested parties of possible inconvenience eg: neighbours with party walls. Install safety notices and advise other trades of risks eg: users of blowlamps.
- Installation:** Must be in conjunction with a suitable renovating plaster used to control disruption from residual Hygroscopic salts and water in the structure. Retained water will take some time to dry out, for example a 200mm solid wall will take between 6-12months to dry in an inhabited building heated normally through the winter. The following notes give basic information on installation:-
1. The injection should be positioned to comply with the British Standard Code.
 2. Procedures for different walls: Up to 115mm thick - inject from one side. Solid walls of 230mm thickness should be injected from both sides. Solid walls of greater thickness should be injected from both sides, one side by a series of injections of variable increasing depths. Cavity construction should be injected from both sides (inner and outer leaf).

Brickwork

Drill the selected course, two holes per stretcher and one hole per header to a depth two thirds the depth of the brickwork. Hole size depends on equipment used. Injection is continued until there is a continuous band of treatment on the face of the brickwork using an appropriate pressure of 100psi.

Single skin walls 115mm are drilled from one side.

Solid 30mm walls are preferably treated from both sides but progressive drilling can be used where this is not possible. The first skin is drilled and injected before through drilling and injecting into the second skin using the average time taken, for the near skin. Thicker walls can be treated using the same progressive drilling and injecting method. Where bricks prove too dense to allow adequate penetration of fluid drilling and injecting can be carried out in the mortar course, the holes being not more than 75mm (3") apart. Check mortar course is sound. It is advisable to reduce the pressure, possibly down to 50psi.

Stonework

The treatment is generally as for brickwork although the drilling pattern will vary according to the construction particularly with uncoursed work.

General

Continuity of treatment throughout the wall should be ensured irrespective of technique.

Consumption

This will vary according to the nature and porosity of the substrates. A general guide for 9" (230mm) average brickwork would be 3 litres per metre run.

Finishing Work:

The insertion of a DPC only controls further vertical ingress of water ie: rising damp. The walls above the DPC levels remain wet and need time to dry out. The drying out time is governed by the initial moisture content and the wall thickness. BRE Digest 168 gives general rate of 1 months drying out time for every 25mm of wall thickness. The first decorations following treatment should be regarded as temporary and the recommended decoration at this stage is a trade matt emulsion paint. Final decorations should not take place for at least 12 months following DPC treatment.

When re-plastering after treatment it is essential that the Lectors re-plastering specification is used to prevent contamination of the new surface by residual moisture and contaminant salts in structure. The function has to be carried out strictly in accordance with the Lectors Re-plastering Specification.

Injection Pressures:

350 to 700 kpa using nozzles with pressure tight seals - Injection should be continued until saturation is complete. For very porous substrates inject at 150-350 kpa. It is most important to ensure a continuous saturation along the substrates. For adjoining untreated walls a vertical injection of DPC should be installed. Allow treated walls to stabilise for at least 14 days to allow solvent vapour to disperse or water based DPC to reach equilibrium. Then render internally with renovation plaster. If the external walls are very porous treat with Cromar Exterior Waterseal.

Shelf Life:

12 months.

Storage:

Always reseal opened containers and keep dry. Both types are water reactive.

Health and Safety:

Please refer to the Health and Safety Data Sheet on Damp Proof Injection Fluid.

Further Information:

In the event of further queries or problems concerning the use of this product, please contact the address below, or e-mail info@cromar.uk.com.

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Units 3,4,5 Northside Industrial Estate, Whitley Bridge, North Yorkshire DN14 OGH

www.cromar.uk.com

Tel: 01977 663133 Fax: 01977 662186 E-mail: info@cromar.uk.com