



DPC INJECTION CREAM

CONTROL RISING DAMP
ADVANCED HYBRID SYSTEM

DESCRIPTION

N-virol DPC Injection Cream is a ready to use, highly effective silicone emulsion suitable for brick, stone and masonry walls for the control of rising damp. N-virol DPC Cream is inserted in to pre drilled holes in the mortar beds. This application can be applied internally and/or externally depending on wall thickness and type of construction.

KEY BENEFITS

- EASY INSTALLATION
- VIRTUALLY ODOURLESS
- NON-HAZARDOUS
- 1 LITRE WILL TREAT APPROXIMATELY 5M OF A 9 INCH WALL

Important Note: In all cases the damp proof course should, as far as is possible, be installed in accordance with the British Standard 'Code of Practice for Installation of Chemical Damp Proof Courses' BS 6576 (2005). In particular, the inserted DPC should be below the level of timber floors. All internal salt contaminated wall plaster should be replaced. New plaster should not bridge the DPC. An integral waterproofing additive should be used in the re-plastering specification.

PREPARATION

Check and overhaul rain water goods to ensure they are in good order and clean. Repair or install drains to carry away surface water. If internal floors are below external ground level form trenches along the external face of the walls at least 150mm below the proposed DPC level (where foundation depth allows). If approach is not feasible the DPC must be placed 150mm above external ground level and the internal walls tanked below the DPC to prevent lateral migration of moisture/salts (see N-VIROL Re-Plastering specifications). Remove skirtings, fixings and render/plaster to expose the line of the proposed DPC (mortar bed). Internal plaster which may be contaminated with hygroscopic salts should be 'cut-back' a minimum of 1m above the DPC line or 300mm above the highest signs of dampness/salts.



Check flooring timbers for signs of fungal decay and repair/replacement as appropriate. Ensure wall cavities are cleared of debris.

DRILLING AND INJECTION

Walls vary in thickness and type of construction so it is essential these factors are taken into account before deciding on an appropriate drilling pattern. Older properties may consist of several different styles of construction and the specification of drilling and injection should be varied accordingly.

DPC height should always be at least 150mm above the external ground level. In case of solid floors, insert the DPC as close to floor level as possible. Vertical DPCs should be provided to connect horizontal DPCs where ground levels change and to isolate untreated wall areas (adjoining properties, garden walls etc.)

In most cases solid brick walls may be drilled/injected from one side only. For cavity walls each leaf may be dealt with as separate 115mm thick wall. Alternatively, if preferred, drill through the selected mortar course, across the cavity, then drill the other leaf of brickwork to a depth of 90-100mm and inject in one continuous process.

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Always ensure the cavity is clear before treatment. In random stone and rubble infill walls, as far as practically possible, follow the mortar course at the appropriate level. However, if the stone is of a porous type, it may be possible to vary the drilling location (mortar/stone) as long as the mortar bed perpend is treated. In walls greater than 350mm thickness it is recommended that drilling is undertaken from both sides at corresponding height.

APPLICATION

Drill 12mm diameter holes horizontally in the mortar bed at centres up to 120mm but no greater. The depth of hole required is 90% of the wall thickness. Insert cream to within 1cm of the wall surface. Ensure the horizontal drilling pattern targets the base of all perpend of the course selected. Always ensure bore dust is removed from drilled holes before inserting DPC Cream.

Drilling and Coverage Information

Wall thickness	115mm (4.5")	230mm (9.0")	345mm (13.5")
Drilling Depth	100mm	200mm	310mm
Drilling Diameter	12mm	12mm	12mm
1 metre of Wall	100ml	200ml	310ml
400ml Cartridge	4m	2m	1.3m
1 litre Cartridge	10m	5m	3.2m
8 litre Box	80m	40m	25.6m

*certain types of construction may result in higher retentions, e.g. up to twice the above figures in rubble filled walls, some allowance should also be made for wastage (ca. 10%).

Remove skirtings, fixings and render/plaster to expose the line of the proposed DPC (mortar bed). Internal plaster which may be contaminated with hygroscopic salts should be 'cut-back' a minimum of 1m above the DPC line or 300mm above the highest signs of dampness/salts. Check flooring timbers for signs of fungal decay and recommend repair/replacement as appropriate. Ensure wall cavities are cleared of debris.

DPC Injection Cream is typically dispensed through a nozzle using a caulking gun or hand-pump.



Insert the nozzle of the DPC application gun into the full depth of the pre-drilled hole. Squeeze the gun trigger and back fill each hole fully with DPC Cream to within one centimetre of the surface. When treating cavity walls from one side make certain that the holes in each leaf are filled. When using 400ml cartridge, push the nozzle extension tube through the nozzle from the inside and secure with tape. Cut the top off the cartridge being careful not to damage the threads.

On external faces of walls drill holes can be re-pointed using a matched mortar or plugged with plastic caps of a suitable size and colour.

On internal faces holes can be left open and plaster stopped short of the DPC (see below and N-VIROL re-plastering Specification Data Sheets). It is advisable to leave walls injected with DPC Injection Cream to dry for as long as possible, and for at least 14 days, before removing excess salts and commencing re-plastering.

Skirting should be treated with wood preservative before re-fitting.

FINISHING

DPC Injection Cream is designed to control rising damp but walls can remain damp after DPC installation particularly where they are severely contaminated with hygroscopic salts. The removal and replacement of internal salt contaminated plaster is an important part of effective damp proofing work (salts left by rising damp are hygroscopic and cause future staining independent of structural dampness). It is essential, therefore, to follow specific guidelines drawn-up for dealing with the particular challenges posed by damp/salt-affected surfaces.

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Replastering after the insertion of a chemical DPC

First coat/backing coat: 3 parts washed sharp sand to 1 part cement (OPC) gauged with 1 part IWP Render Additive to 25 parts water.

Thickness: 10-12mm

Second coat/float coat: 4 parts washed sharp sand to 1 part cement (OPC) gauged with 1 part IWP Render Additive to 25 parts water.

Thickness: 8-10mm

Finish coat: This should not be applied until the backing and float coats have dried, with a minimum of 24 hours after the application of the float coat. A gypsum based finish coat can be applied in accordance with the manufacturers specification.

Thickness: 1.5-3.0mm

NOTE: PLEASE DO NOT ADD GYPSUM BASED PLASTERS TO THE BACKING OR FLOAT COAT, OR USE GYPSUM BASED PLASTERS AS AN ADDITIVE TO EITHER COAT. IWP RENDER ADDITIVE IS NOT SUITABLE FOR LIME BASED MIXES OR MIXES WITH LOW CEMENT CONTENT.

Please refer to N-VIROL IWP Render Additive Data Sheet for further information.)

SPILLAGE

Spilt material should be wiped up immediately and the wipes disposed of appropriately. Contaminated surfaces should be washed immediately with warm soapy water. If DPC Injection Cream penetrates non target surfaces (e.g. patio slab) it will normally dry to a clear finish. However, if staining arises consult N-VIROL technical department for further advice. Handling DPC Injection Cream is not classified as hazardous according to current labelling guidelines. Wear lightweight impervious gloves when handling. Wash splashes from skin and eyes immediately. Wash hands and exposed skin before meals and after use. Keep in original container, tightly closed, in a safe place. Our full Health and Safety data sheet is available on request.

PACKAGING / STORAGE

DPC Injection Cream is packed in 8.0 litre recyclable "bag/box", 1000ml and 400ml cartridges.

Store in a cool, frost-free conditions. Use within 12 months.

TECHNICAL INFORMATION

N-VIROL is committed to excellence in product design and manufacture. The information provided in this data sheet is intended to guide both the DIY user and professional contractor in the appropriate use of our DPC Injection Cream.

If any further advice is required please consult our Technical Department.



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