



AQUEOUS DPC INJECTION FLUID



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**LOW ODOUR WATER
BASED FORMULA**

**LONG-LASTING
BARRIER TO RISING DAMP**

**RECOMMENDED FOR
NATURAL STONE WALLS**

DESCRIPTION:

PALACE AQUEOUS DPC FLUID is a concentrated solution of potassium methyl silicate which when diluted in a 1 to 6 ratio with water gives an odourless non flammable injection fluid suitable for low pressure injection into brickwork and masonry surfaces and mortar joints to form a water repellent barrier, protecting against damaging effects of rising damp. The silicate cures by reacting with atmospheric carbon dioxide producing a water repellent silicone resin forming a permanent bond to treated masonry to give a durable damp proof barrier. AQUEOUS DPC INJECTION FLUID concentrate can be easily diluted on site with tap water to yield ready to use injection fluid, free flowing and suitable for use with a low pressure pump injection machine. When applied in accordance with BS 6576: 1985 - "code of practice for installation of a chemical damp-proof course" by a Palace approved installer this product carries a manufacturer's guarantee of a 30-year effective life. Recommended especially in properties where the odour and smell of white spirit is undesirable.

SURFACE PREPARATION:

A pre-treatment survey is advised to determine the most effective line for the DPC to be injected into. Remove any surrounding groundwork, soil or loose masonry likely to bridge this line, which should usually be no less than 150mm above outside ground level and preferably be below any timber floors within the property. Drill holes of 10mm diameter at 4" (100mm) centres directly into the chosen line of brickwork, or if this is of an impermeable variety select the nearest available sound line of mortar, penetrating no more than about 2 thirds of a single brick width in each case.

APPLICATION METHOD:

Aqueous DPC injection fluid is suitable for the installation of a chemical damp proof course into existing brick, concrete block stonework or durable sand/cement mortar joints, in walls up to 600mm thick where the leaves are no more than 340mm thick in each course, walls of conventional cavity construction or where the cavity has been rubble filled. Single leaf [115mm] brick can be injected from one side only however cavity or double leaf walls require injecting from both sides. Thicker walls, or where access is possible from only one side, should be treated using a double-drill and inject method. It is important to maintain injection pressure within the range of 5-20psi. Although resulting in slightly prolonged input times, the slower rate improves the diffusion of fluid through the mortar bed. Pressure in excess of this will not improve fluid uptake and may result in fracture and cracking of weak mortar joints. Treatment to party walls can only proceed with the full knowledge and consent of the adjoining property owner.

COMPLETION:

Palace Aqueous injection fluid will achieve its full water repellency as the brickwork dries out. Complete drying can take between 6-12 months for a typical 230mm (9") wall or longer for deeper structures. The rate of drying is largely dependent upon the heating and ventilation available to the treated sections of brickwork. Remedial plastering should be carried out in accordance with the Palace re-plastering specification, using a mix of 3 parts washed dry sand to 1 part cement, incorporating INTRAPRUF or FUNGICIDAL WATERPROOFER within the mix to give integral water-proofing and salt-inhibiting activity up to 1.1 metres above the newly injected DPC line.

COVERAGE:

This will depend upon the texture and porosity of the masonry surface. The table below shows the typical consumptions found in practice however this rate will be influenced by the dampness and density of the brick being treated:

4" [115mm] brickwork	9" [230mm] brickwork	13.5" [345mm] brickwork
5 litres per 3 linear metres	5 litres per 2 linear metres	5 litres per 1 linear metre

HEALTH & SAFETY:

CORROSIVE - Causes severe burns to skin & eyes

Keep locked up and out of the reach of children; Avoid contact with skin and eyes; In case of contact with eyes, rinse immediately with plenty of water and seek medical advice; After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water; Take off immediately all contaminated clothing. Handle and open container with care; Wear suitable protective clothing. Do not breathe spray; Wear gloves, boots, overalls and eye/face protection.



CORROSIVE

STORAGE & PACKAGING:

PALACE AQUEOUS DPC INJECTION FLUID is supplied in 3.6 litre and 25 litre concentrate, or as a ready to use 25 litre pre-diluted liquid. 3.6 litres of concentrate is sufficient for 25 litres of ready to use fluid, 25 litres of concentrate will yield 175 litres of injection fluid. Should further more specific technical information be required, contact the Palace Technical helpline on 0151 486 6101.

The information provided by this Technical data sheet is given in good faith and is to the best of our current knowledge true and accurate. However it is given without guarantee, as conditions of use and workmanship involved are both beyond our control. All information supplied is subject to the company's terms and conditions of sale, copies of which are available on request.

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