DampStop Injection Kit

Complete application set for a rising damp barrier — product and equipment in one box

5 L CONCENTRATE · 50 L SOLUTION

KIT DESCRIPTION

The DRYVATEC DampStop Injection Kit brings together the chemical and the equipment needed to install a rising damp barrier without calling in a specialist contractor.

At the centre of the kit is D101 DampStop Concentre, 5 L. Diluted 1:9 it yields 50 litres of ready-to-use injection solution — approximately 16.5 metres of barrier in a wall 20 cm thick.

The accompanying equipment addresses the three critical steps of the operation: drilling holes of the correct diameter, preparing the mix in the correct ratio, and transferring the solution into an inclined borehole without spillage. If any of these is wrong the barrier remains discontinuous.

BOX CONTENTS

D101 DampStop Concentre — 5 L Silane/siloxane concentrate; diluted 1:9	1 pc
FlexFill Injection Funnel Flexible neck; fills inclined boreholes without spillage	1 pc
Graduated Measuring Jug — 1 L 100 mL concentrate + 900 mL water; ratio verified visually	1 pc
Drill Bit — 14 mm Correct diameter for the boreholes	1 pc
Application Guide Step-by-step instructions and consumption tables	1 pc

KIT DATA

KIT SPECIFICATION	
Kit code	DK101
Main product	D101 DampStop Concentre
Concentrate volume	5 L
Dilution ratio	1 part product : 9 parts water
Solution obtained	50 L
Wall covered (20 cm)	approx. 16.5 metres
Borehole diameter	14 mm
Borehole spacing	10 cm
Borehole angle	30° – 45° downward
Barrier formation time	48 hours
Application temperature	+5 °C / +30 °C
Shelf life (concentrate)	24 months
Intended user	Home user and contractor

Values are typical figures obtained at +23 °C / 50 % relative humidity.

NOT INCLUDED — REQUIRED SEPARATELY

HydroFix damp-proofing render — mandatory surface renovation before injection; supplied separately.
Drill — the bit is in the kit, not the machine.
Mixing bucket — the jug is for measuring; a 20 L bucket is needed for 50 L of solution.
Protective equipment — gloves, goggles, mask.
Repair mortar — for closing the boreholes.

IS THIS KIT RIGHT FOR YOUR PROBLEM?

Signs of rising damp

- The damp line is parallel and horizontal to the floor, usually stopping between 0.5 and 1.5 m.
- White salt efflorescence accumulates immediately above the line.
- Plaster blisters, paint flakes and there is a musty smell at the wall base.
- The problem worsens in winter but does not disappear entirely in summer.

These are not rising damp

SUBSTRATE / WALL TYPE	STATUS	NOTES
Condensation	Not suitable	Upper corners and ceilings
Plumbing leak	Not suitable	Local, irregular outline
Roof or façade leak	Not suitable	Linked to rainfall
Capillary rise	Suitable	This kit is applicable

Injection will not succeed where the damp problem has been diagnosed incorrectly.

APPLICABLE WALL TYPES

SUBSTRATE / WALL TYPE	STATUS	NOTES
Solid brick, natural stone, mixed masonry	Suitable	Continuous capillary network; homogeneous barrier
Pumice, aerated concrete, adobe	Suitable	High absorbency; calculate from upper consumption values
Perforated brick	Conditional	Render must be renewed first; material may escape into voids
Reinforced concrete walls, columns, foundations	Not suitable	No capillary network; the Nem Kutusu device is required
Timber, metal, painted surfaces	Not suitable	Designed for mineral substrates

HOW MUCH WALL DOES THE KIT COVER?

WALL THICKNESS	SOLUTION PER METRE	LENGTH COVERED BY 50 L	TYPICAL USE
10 cm	1.50 L	approx. 33.3 m	Partition wall, single storey
15 cm	2.25 L	approx. 22.2 m	Internal wall
20 cm	3.00 L	approx. 16.5 m	Standard external wall
25 cm	3.75 L	approx. 13.3 m	Thick external wall
30 cm	4.50 L	approx. 11.1 m	Older building
40 cm	6.00 L	approx. 8.3 m	Rubble stone
50 cm	7.50 L	approx. 6.6 m	Historic building

Values assume 10 cm borehole spacing and a solid wall cross-section. Consumption increases in perforated brick and cavity construction; an allowance of 10 % is recommended. If you already own the equipment there is no need to buy another kit — D101 Concentre is available separately in 1 L, 5 L and 20 L packs.

APPLICATION SEQUENCE

01 Remove damp and blistered plaster from the wall.

02 Apply HydroFix damp-proofing render and allow it to cure.

03 Drill 14 mm holes 10 cm above floor level, 10 cm apart, inclined 30–45° downwards, to 4/5 (approx. 80 %) of the wall thickness.

04 Mix 100 mL concentrate with 900 mL water using the measuring jug; leave to stand for 5 minutes.

05 Transfer the solution into the boreholes with the FlexFill funnel until saturation is reached.

06 Leave the holes open for 48 hours.

07 Close the holes with repair mortar and finish the surface.

COMMON MISTAKES

- **Drilling before the plaster is removed**
  In perforated brick the cells are opened and the solution escapes into the voids; the barrier remains discontinuous.
- **Diluting by eye**
  The graduated jug is supplied for this purpose. Too much water reduces effectiveness, too little prevents distribution.
- **Drilling the holes at an upward angle**
  The solution flows back out and cannot penetrate the cross-section.
- **Closing the holes before 48 hours**
  Distribution is interrupted and the barrier does not span the full cross-section.

FREQUENTLY ASKED QUESTIONS

S Can I apply it myself?
Yes — the kit was designed for this. Anyone able to use a drill can carry out the work; following the borehole pattern and the dilution ratio is sufficient.

S How long does the work take?
Excluding plastering and HydroFix, drilling and injection take about half a day for a 15-metre wall. A 48-hour wait then follows.

S Can it be applied in winter?
Ambient and surface temperature must be above +5 °C. Postpone if frost is expected.

S Why is HydroFix also required?
Injection stops moisture from rising, but the water and salts already present in the wall continue to reach the surface. HydroFix renews that surface.

S When will the wall be dry?
The barrier forms within 48 hours and no new moisture rises. The water already held in the wall is released over 6 – 12 months.

S What if the kit is not enough?
The equipment remains yours; you only need more concentrate, available separately.

STORAGE

Concentrate 24 months in unopened packaging. Store dry and cool, protected from frost and direct sunlight.

SAFETY

Wear gloves, eye protection and a mask. Do not inhale or swallow. Refer to the Safety Data Sheet.

LIMITATIONS

Not suitable for reinforced concrete walls, columns or foundations. Active water ingress must be stopped first.

POSITION WITHIN THE THREE-STAGE SYSTEM

The kit establishes the first link of the system; lasting results require completion with HydroFix.

01 DampStop	02 HydroFix	03 Nem Kutusu
Horizontal chemical barrier inside the wall	Water-repellent surface renovation layer	Electromagnetic drying in reinforced concrete