

SILICONATE BASED INJECTION GROUT FOR RISING DAMPNESS

Description

Dr. Fixit Dampfree is a single component, water dilutable injection grout based on water soluble siliconates. It is used for permanently solving the persistent rising of dampness in brick masonry structures due to water ingress by capillary action. Reacts with the functional group of construction materials & forms water proofing layer between the brick joints.

It is effective for masonry structures as well as porous construction materials, for old structures, monuments and in areas having high water table level.

Areas of Application

DAMPROOFING OF

- Brick masonry structures
- Monuments
- High water table area super structures
- Old structures

Features & Benefits

- **Water based** - Water insensitive, hence ideal for grouting moisture laden areas.
- **Consistency** - Water like consistency provides excellent flowability which is required for injection grouting.
- **Durability** - Increases the life expectancy of masonry, because provides damp free surfaces.
- **Microorganism growth** - Protects from moss & fungal growth.
- **Frost-thaw resistance** - Less sensitivity to frost-thaw cycles.
- **Economics** - Very high water dilution ratio, reduces cost of material, hence economical in use.

Method of Application

1 FIXING OF NOZZELS

- The area for grouting should be identified and marked for inserting the nozzles for the rising dampness.
- The spacing of holes will depend upon the absorption capacity of the building material i.e. lower the absorption; lesser will be the spacing.
- Using 12 mm to 15 mm diameter drill bit, drill holes through the brick joints tapered inwards at an inclination of 45° the extent of 1/2 to 3/4 of the wall thickness.
- The holes can be drilled either in the internal side or the external side or both of the wall depending on the severity of the problem.
- Dr. Fixit Dampfree creates a damp proofing course and therefore, should be injected in the lowest possible point almost touching the defective damp proofing course.
- The placing of the holes may be done at 300 mm centre to centre from ground level, vertically staggered. The vertical distance may be placed between 150 mm to 200 mm depending on the site condition.
- Fix 10-12 mm diameter PVC perforated nozzles or as specified into the drilled holes. Place the nozzles in such a way, so as to leave sufficient gap at the inside end for inflow of the grouting liquid. Seal the nozzles inside the drilled holes with suitable material and allow it to set at least for a day before grouting.
- Clean the surfaces thoroughly, they should be free from oil, grease, dust, debris, fungus and moss.
- Thorough wire brushing followed by sanding with emery paper is recommended.
- Remove the existing paint plaster if poor in condition, neroo or instant lime, etc. while treating internal damp walls.

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2 APPLICATION

- Depending upon the severity of dampness and the materials used in the wall & in its construction, Dr. Fixit Dampfree (as supplied) is diluted by 1 part with 5 parts of potable water.
- A cementitious grout pump sufficient to create pressure of approx. 2 kg/cm² must be used to inject Dr. Fixit Dampfree through pressure grouting machine. Inject the diluted liquid by pumping till the point of return of liquid is felt.
- Allow it to remain for sometime before moving to the next nozzle.
- Observe the area for 3-4 days and try to reinject through the same nozzles, if materials. Remove the extended / protruding nozzles and seal the holes with suitable compound.
- The treated areas should be washed thoroughly.
- Certain area need a coat of Dr. Fixit Dampguard, a water based epoxy coating averting the dampness before application of P.M.M. plaster.

Precautions & Limitations

- Dr. Fixit Dampfree should be diluted depending upon the severity of the dampness. For advice, please consult Dr. Fixit Technical Services Department.
- For damproofing to be fully effective, it generally takes 6 to 12 months.
- In view of alkaline nature, the material should not be handled or applied over aluminum or hot alloys.
- All old plaster and paint must be removed.
- The treated areas may be re-plastered using waterproofing additive or with suitable water repellent system.
- The consumption depends upon the absorption capacity of the building materials.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Base		Aqueous Siliconate solution
Colour		Colourless to Pale Yellow
Solid content		40 ± 2% by weight
Specific gravity		1.30 ± 0.02
pH (Approx)		Alkaline
Diluent		Water
Water absorption, %	BS : 6477 : 1992	< 1

Packaging

- 2 & 10 litre.

Shelf Life & Storage

- Shelf life is 12 months from the date of manufacturing in unopened condition.
- Store in a cool & dry place.

Dr. Fixit Dampfree



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Health & Safety Precautions

- Use rubber hand gloves & safety goggles, while using Dr Fixit Dampfree.
- In case of contact with skin, wash with plenty of water.
- Keep out of reach of children's

Other Product Categories Available

DR. FIXIT has wide range of Waterproofing & Construction chemicals which includes,

- Waterproofing Products
- Repair Products
- Sealants
- Flooring Products
- Exterior Coating Products
- Tile Fixing Range
- Concrete Admixtures
- Grouts



Pidilite Industries Limited

Construction Chemicals Division
Ramkrishna Mandir Road
Post Box No. 17411
Andheri (E) Mumbai 400059 INDIA
Tel +91-22-2835 7000 • Fax +91-22-2835 7008
website www.doctor-fixit.com • E-mail drfixit@pidilite.com
Toll Free No.: 1800-22-5502

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