

X-GEL 3000

Product Description

X-GEL 3000 is hydrophilic polyurethane water stop that is highly effective for the treatment of leakage in concrete structures.

X-GEL 3000 has an expansion rate of 700 – 800% when in contact with water and forms a high density cell structure and so is effective even in flowing water.

Uses

X-GEL 3000 is effective for defective and honeycombed concrete, sealing cracks and joints, sealing structural cracks subject to movement, waste water tanks, sewer/manholes, tunnels, dams and service penetrations.

Advantages

X- GEL 3000 reacts even with a small amount of water.

Single component - easy to use.

Rapid expansion (including in fresh or salt water).

High elasticity - able to move in expansion joints.

Ultra low viscosity – will enter the smallest of cracks.

High adhesion to wet surfaces – can be injected into flowing water.

Installation

Examine Crack Status

After complete examination of the thickness of the structure, depth and width of the cracks or joints, secure the area and mask off any areas which may be adversely effected by over spill.

Prepare Surface of the Crack

Clean the area of the crack or joint using a brush, wire brush or compressed air (remove any oil, stains or contamination with thinners etc.) and remove any dust or debris from the crack or joint.

Select Drilling Position

According to the amount and condition of leaks mark drilling positions at 12cm to 20cm alternatively on either side of the crack or joint. Drill at an angle of 45° ensuring that the drill passes through the crack or joint.



NEOFERMA AUSTRALIA PTY LTD

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ABN 71 094 461 042

SwellSealms
Bentonite Waterproofing Multi-layer Systems

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NEOPANEL
NEOFERMA

E-R-P-O-N-S-I-O-N J-O-I-N-T



Insert Packer

Clean any dust from the crack or joint and insert a NEOFERMA brass packer into the hole and tighten to secure.

Injection

Inject X-GEL 3000 into the crack or joint through the packer until the leakage has stopped and the solution has reacted and is visibly coming out of the crack or joint.

Remove Packer

Remove head part of the packer protruding from the surface and grind flush.

Finishing

Seal the area with an epoxy sealer or cementitious repair mortar.

Physical properties

| | |
|-------------------------------------|-----------|
| Viscosity (mPa 25 ⁰) | 3000 ±500 |
| Specific gravity (25 ⁰) | 1.1 |
| Tensile strength | 2.9 |
| Elongation (%) | 96% |

Mixing Ratio effect

| Ratio PU/water | Start expansion | Finish expansion | Expansion rate |
|----------------|-----------------|------------------|----------------|
| 10:5 | 20 sec | 95 sec | 1000% |
| 10:10 | 23 sec | 110 sec | 850% |
| 10:15 | 25sec | 125 sec | 700% |
| 10:20 | 28 sec | 150 sec | 650% |

Safe Handling

This product is safe to use. It is prudent however to observe care, follow industrial hygiene practices and wear protective clothing gloves and goggles.

Avoid contact with skin and eyes. Should this occur flush the contacted areas thoroughly for at least 15 minutes with clean water.

Do not consume (eat or drink) the product. If the product is consumed DO NOT induce vomiting, drink a lot of water and consult with a doctor immediately or contact the Poisoning Information Centre.

(Australia 131126 – New Zealand 0800764766) for first aid advice.

Avoid breathing vapours.

For workplace health and safety hazard information please consult the NEOFERMA MSDS for this product.

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Statement of Responsibility

The technical information contained in this document is based on current practical knowledge. As this information is of a general nature, no assumptions can be made that it will be suitable for any application and any warranties will be issued on a project by project basis.

It is the contractor's responsibility to ensure that the procedures are carried out according to the Neoferma X-GEL Instruction Manual.

Packaging;

20 Kg Pails

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