

Aqua-Dam U

Hydrophobic Polyurethane Grouting System

PRODUCT DESCRIPTION

Tremco Aqua-Dam U is a hydrophobic polyurethane compound that is injected into concrete and other sound substrates to stop water. The reaction time is controlled with Tremco Aqua Accelerator. When cured, Tremco Aqua-Dam U forms a water tight seal within the substrate.

USAGE/PURPOSE

Tremco Aqua-Dam U, can be injected into a variety of concrete structures to waterproofing leaking cracks and joints (control and construction joints).

FEATURES & BENEFITS

- Fast reaction time with added accelerator.
- Dimensionally stable- minimal shrinkage in wet/dry cycles.
- Excellent elongation in moving cracks and joints.
- Tenacious adhesion to both wet and dry substrates.
- Needs very little water to react and cure.
- Remains active when the water subsides.

PACKAGING

- Aqua Dam U - 20 Litre
- Tremco Aqua-Dam Accelerator 1 Litre

SHELF LIFE

12 months when stored as recommended in original unopened packaging.

STORAGE

Store in a dry cool place in original unopened packaging.

LIMITATIONS

- Colder temperatures will affect the viscosity and setting times of the product.
- Avoid exceeding 32°C when warming product.
- Water used to react Tremco Aqua-Dam U must be in the pH range of 3 - 10 for optimal performance.
- Store material in moisture free packaging. Atmospheric moisture may get to product causing a foam "head" inside of pail. This can be peeled off and the material below can still be used.

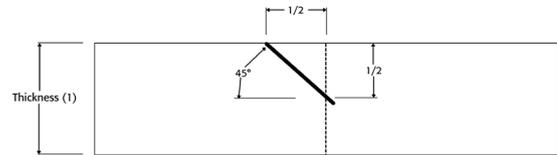
JOBSITE MATERIALS

Recommended materials and their uses are as follows:

- Tremco Injection Packers
- Tremco Injection Coupler
- Suitably sized masonry drill bit
- Tremco Xylol
- Injection Pump
- Open Cell Backing Rod (Optional)



SUBSTRATE PREPARATION FOR CONCRETE SURFACES



1. To ensure the project is completed properly, clean the exterior of the surface so that the full extent of the crack or joint can be seen. This will aid in proper hole drilling.
2. Injection packers should be spaced at minimum centers matching the thickness of the structure to be injected (t).
3. Where required, spacing can be reduced on site to ensure proper spread of the Aqua-Dam U.
4. Starting at the lowest point of the crack; triangulate the position of the first hole to be drilled, so that it will intersect the crack of a 45° angle, half way through the thickness (t/2) of the concrete.
5. Drill a hole (matching the size of the injection packer) in this position and ensure that the bit used is long enough to pass through the crack.
6. Drill the next hole in the same manner on the opposite side of the crack. The spacing between holes should be equal to the thickness of the concrete.
7. Continue to drill holes on the alternate sides of the crack for the entire length of the crack or joint.

TYPICAL PHYSICAL PROPERTIES

PROPERTY		TEST METHOD	TYPICAL VALUES
Liquid	Viscosity @ 25°C	ASTM D1638	500 cps
	Specific Gravity		1.06
	Physical State		Liquid
Cured	Density	ASTM D1622	64kg/m ³
	Elongation	ASTM D638	400%
	Tensile Strength	ASTM D638	2 MPa
	Water Absorption	N/A	< 1% by volume

METHOD OF APPLICATION - MIXING

1. Prior to injecting Tremco Aqua-Dam U, thoroughly stir the material and add Tremco Aqua Dam Accelerator (where required).
 - A. Do not use high speed mixing equipment, as this entraps air into the product, reducing its effectiveness.
 - B. Tremco Aqua Dam Accelerant should be added to the material as required to control initial foam, and reaction time.
 - C. Do not add more than the maximum amount of Tremco Aqua Dam Accelerant, as this will allow excessive shrinkage of the material, thus allowing water to pass through the crack or joint again.

TYPICAL REACTION PROFILE

Tremco Aqua Dam Accelerant Dosage			
	0%	2.5%	5%
Initial Foam	2 Minutes	40 Seconds	20 Seconds
Reaction Time	15 Minutes	3 Minutes	2 Minutes

INJECTION

1. Once the injection packers have been installed and the drilled holes and cracks have been flushed out with water, the injection of the material can begin.
 - A. On a vertical crack, Tremco suggests starting at the lowest point and working upwards.
 - B. On a horizontal crack, Tremco suggests starting at the end that was first installed and flushed with water.
 - C. As Tremco Aqua-Dam U reacts with water to foam and cure, Tremco suggests that you ensure that the crack has sufficient water, to ensure an efficient reaction.
2. Pump Tremco Aqua-Dam U into the packer until foaming material comes out the face of the crack and reaches approximately half way to the next packer.
3. Move the injection pump to the next packer, and repeat until you have moved the entire length of the crack.
4. Typical injection pressure into cracks is 1.4 - 20 MPa, depending on the width and depth of the crack.
5. For large cracks and joints, open celled backing rod can be used to plug the face of the joint during injection. Simply soak in Tremco Aqua-Dam U and then place into the crack or joint.
6. Once the Tremco Aqua-Dam U has cured, the packers can be removed or cut-off, flush with the surrounding surface. The resin that has cured on the outside face of the crack can be cut-back.
7. The packer holes can be filled with Tremco HB Ultra, and finished as desired.

CLEAN UP

- Clean all wet spills with Tremco Xylol.
- Clean tools or equipment with Tremco Xylol before material cures.
- Clean hands by soaking in hot, soapy water, then brushing with a stiff-bristle brush.

HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE

TREMCO has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

TREMCO products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge.

Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

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