DURAL AQUA-DAM

HYDROPHOBIC POLYURETHANE GROUT



DESCRIPTION

DURAL AQUA-DAM is a hydrophobic polyurethane compound that is injected in concrete and other sound substrates to stop water from entering into occupied or unwanted places. **DURAL AQUA-DAM** forms a water tight seal within the substrate, that remains even after the water has subsided.

PRIMARY APPLICATIONS

- · Leaking cracks and joints
- · Water treatment facilities
- · Wastewater treatment facilities

- Mines & tunnels
- Sewers & manholes
- · Below grade walls subject to high water tables

FEATURES / BENEFITS

- Bonds to wet and dry substrates
- Needs very little water to react and cure
- · Remains active when the water subsides
- · Fast reaction time with added accelerator
- Excellent elongation to handle moving cracks and joints
- Very little shrinkage

TECHNICAL INFORMATION

TYPICAL PROPERTIES - LIQUID	RESULTS	TEST METHOD
Viscosity @ 25°C	300 - 500 cps	ASTM D 1638
Specific Gravity	1.1	-
Physical State	Liquid	-
Colour	Dark Brown	-

TYPICAL PROPERTIES - CURED	RESULTS	TEST METHOD
Density	50 kg/m³	ASTM D 1622
Elongation	30%	ASTM D 638
Tensile Strength	0.16 Mpa	ASTM D 638
Shear Strength	0.10 Mpa	ASTM D 273
Water Absorption	< 1% by volume	ASTM D 2842

PACKAGING

DURAL AQUA-DAM is packaged in 18 kg pails.

SHELF LIFE

All materials have a 1 year shelf life in their original, unopened packages. Products are moisture sensitive and need to remain in airtight containers.

DIRECTIONS FOR USE

Surface & Crack Preparation: 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. Start by determining the thickness of the concrete substrate that will be repaired. This will be used in the spacing of packers. Starting at the lowest point of the crack; triangulate the position of the first hole to be drilled so it will

intersect the crack at a 45° angle, half-way through the thickness of the concrete. Drill a 16 mm hole in this position and ensure that the bit used is long enough to pass through the crack. 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. Continue to drill holes in the same manner, moving up the crack until the entire length of the crack or joint has an equal chance of receiving the grout. Install 16 mm injection packers into the drilled holes and tighten. Inject water through the packers to make sure they don't leak around the sides. This water injection will also flush out any dust and debris that is in the crack due to the drilling process.

Mixing: Prior to injecting **DURAL AQUA-DAM**, stir the material. Do not use high speed mixing equipment and avoid whipping air into the product.

Placement: Once the injection packers have been set and the drilled holes and crack have been flushed out with water, the injection of the material can begin. Start at the lowest point of a vertical crack and work upwards. Pump DURAL AQUA-DAM into the packer until foaming material comes out the face of the crack and starts to approach the next packer. On a horizontal crack, start at the end that was first installed and flushed with water. The more water left in the crack and injection site, the better. Move the injection head to the second packer and repeat for the entire length of the crack. A standard airless paint pump can be used for this application. Typical injection pressure into cracks is 200-300 psi, depending on the width and depth of the crack. For large cracks and joints, oakum rope or a similar open celled structure device can be soaked in DURAL AQUA-DAM and placed into the crack or joint. Once the DURAL AQUA-DAM has cured, the packers can be removed or cut-off, flush with the surrounding surface. Any grout cured outside of the face of the crack can be cut-back with a margin trowel or similar scraping tool. The packer holes can then -be filled in with Euclid Chemical's Speed Plug hydraulic cement and finished as desired.

CLEAN UP

Use all appropriate protective equipment. Avoid contact with active grout. Use suitable solvent to clean out the lines of the injection equipment.

PRECAUTIONS / LIMITATIONS

- Colder temperatures will affect the viscosity and setting times of the product.
- Avoid exceeding 32°C when warming product.
- Water mixed with DURAL AQUA-DAM must be in the pH range of 3-10.
- Store material in moisture-free packaging. Atmospheric moisture can cause a foam "head" on the product inside of pail. Remove the foam and the remaining material can be used.
- In all cases, consult the Safety Data Sheet before use.

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