

PU JECT 305

Polyurethane Water Reactive Grout

GENERAL DESCRIPTION

AXEL PU JECT 305 is a single component, low viscosity, hydrophobic polyurethane injection grout system. **AXEL PU JECT 305** reacts in the presence of water, forming a rigid closed cell foam to seal any leaks in concrete leakages, honeycombing or void filling within gaps of conduits or window seals. It will foam to 20-26 times of its volume in the presence of water and effectively control of excessive water seepage.

RECOMMENDED USES

Use as a complete system for water cut- off in:

- * Concrete structures
- * Masonry structures
- * Toilet slabs
- * PVC down pipes, reservoirs and water tanks

CHARACTERISTICS & ADVANTAGES

- * Totally water-resistant
- * Excellent bonding strength
- * Solvent free, 100% solid
- * Low viscosity, good penetration
- * Some reaction with salty or contaminated water
- * Underwater injection approved

COVERAGE

Theoretical coverage: Not applicable

COLOURS

Pale yellow liquid

PACKING

18 kg per pail

STORAGE

Store in a dry, cool and shaded place



SURFACE PREPARATIONS

The substrate must be clean and free from oil, grease and other containments. Remove any loose concrete, or flush the debris or dust with water.

METHOD OF APPLICATION

- * Identify the leaking area.
- * Drilling 5/8" diameter holes along the side of the crack and install injection packers in the holes and tighten up. Distance of each injection ports depend on crack width, normally varies from 6" to 36".
- * Always flush the drilled holes with water to remove debris / drill dust from the holes and cracks before PU injection. This will also ensure that the crack is wet enough to react with PU grout when it is injected into cracks.
- * Hook up the injection pump nozzle to the packer and begin pumping. Injection starts at the lowest packer installed on a vertical crack, or first packer for a horizontal crack.
- * During injection, **AXEL PU JECT 305** will displaces water from crack. Continue the injection until PU grout appears at the adjacent packer hole.
- * Stop pumping, move to the second packer and begin injection again. Continue this process until entire of crack is sealed.
- * Disconnect the injection pump from the grout packer and flushing the injection pump machine several times. This flushing procedure allows for the reused of the pump machine at any time in the future.
- * Waiting PU grout react. Reinject the grout to all the ports second time if necessary to ensure all the leaking areas are sealed with **AXEL PU JECT 305**.
- * Remove all packers and seal it with **AXEL PLUG 320**.

Notes: **AXEL PU JECT 305** is highly moisture sensitive. Ensure remaining product must be closed tightly / handled properly to prevent moisture contamination.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be mechanically removed.

TECHNICAL SPECIFICATIONS

No of components	One
Specific gravity	1.03 ± 0.02 kg/l
Viscosity	Approximately 3000 cps
Expansion	20-26 times
Dilution	Not required. Ready to use
Reaction times :	
Initial reaction	30-45 seconds
Full rise	3-5 minutes
Full cure	24 hours
Chloride content	N.D.
Toxic	N.D.

SHELF LIFE

12 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions.

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