

URETHANE INJECTION

Product Data Sheet

Waterproofing Crack Injection

PRODUCT NAME

Urethane Injection

MANUFACTURER/SUPPLIER

Polyguard Products, Inc.
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PRODUCT DESCRIPTION

BASIC USES

Urethane Injection is a hydrophobic polyurethane liquid that adheres to wet or dry cementitious substrates and then expands during reaction with water to form a closed cell water repellent barrier.

Urethane Injection is designed for repairs of intermittent leaks along cracks or movement joints where less than 20% movement is anticipated.

Urethane Injection will typically stop water leaking through cracked or honeycombed concrete, along concrete cold joints, and at voids along the following areas: wall and floor junctions, wall and ceiling junctions, expansion joints, and pipe penetrations. It is used to repair concrete walls, ceilings, floors, tunnels, manholes, sewers, dams and parking decks.

COMPOSITION & MATERIALS

Proprietary urethane and Isocyanate material.

TECHNICAL DATA

See physical properties table

INSTALLATION

SURFACE PREPARATION

Wire brush the surfaces surrounding the crack, removing loose or flaking concrete, efflorescence, paint or coatings to approximately 1-2 inches on either side of the crack. Blow and wipe the surfaces to remove dust.

If areas where Surface Injection Ports (SIP) will be placed are wet, dry wetness with a heat gun, oil free compressed air or time.

PORT PLACEMENT: Center and adhere SIPs over and along the crack at about 8-inch spacing using Port & Surface 5/30 or Port & Surface 2/20. The first number in the Port & Surface products indicates working time and

the second number indicates cure time. Choose per job requirements. For best results use a dual cartridge gun without the static mixer tip and discharge measured amounts onto a pallet for combining with a hand held blade. Where vertical cracks start at a floor level, place the lowest port 4-inches from the floor.

APPLICATION

For best injection installation results use a dual cartridge gun with the static mixer tip. Begin work on vertical cracks at the lowest port and on horizontal cracks 4-inches from an end. Inject Urethane Injection with low pressure allowing the resin time to flow into and fill fissures. Stop applying pressure when resin begins to flow from the adjacent port. Remove the injection tip from that port and cap it with the cap provided. Move to the adjacent port and repeat until the entire crack has been injected.

STORAGE

Urethane Injection should be stored in a ventilated indoor area, out of direct sunlight and in an ambient temperature between 60°F and 85°F.

SAFETY

MSDS sheets for all Polyguard products can be obtained at our website www.polyguardproducts.com. Call Polyguard Products, Inc. at 214.515.5000 with questions.

WARRANTY

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.

PHYSICAL PROPERTIES TABLE		
PROPERTY	TEST PROCEDURE	TYPICAL VALUE
DENSITY (CORE)	ASTM D 1622	Free Rise 2.02 lbs/ft
LOW TEMPERATURE	ASTM D 2126	
AGING (-20f) (Shrinkage)	1 DAY	<4%
(Shrinkage)	7 DAYS	<4%
WATER ABSORPTION (volume confined)	ASTM D 2127	<1%
SHEAR STRENGTH	ASTM C 273	34 PSI
TENSILE STRENGTH	ASTM D 1623	31 PSI
ELONGATION	ASTM D 1623	275%
VISCOSITY		100-200 CPS
SOLID CONTENT		100%
COLOR		Amber
TDI CONTENT		0%

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