

TURBO-SEAL U

тм

Single Component Waterproofing Injection Material

PRODUCT DATA: Injection Waterproofing 2-201.45

www.re-systemsgroup.com

866-997-3797 Fe

Turbo-Seal U is a single component, highly elastomeric polymer rubber infused with special adhesives. Turbo-Seal U is used to repair water leaks in below grade structures. Due to its superior flexibility, adhesiveness and self sealing characteristics, Turbo-Seal U is ideally suited for repairing and restoring damaged waterproofing membrane systems. Turbo-Seal U is applied by rotor/stator injection pump.

Uses

Description

Turbo-Seal U is applied in any below grade structure. Turbo-**Seal U** can be applied to areas experiencing high volume active water leakage or minimal water leakage. Preventative sealing is also applicable. Suitable applications include the following types of underground structures:

Tunnels Underground Garages Water Tanks Septic Tanks Concrete Reinforced Levies Subway tunnels

Areas of application include:

Shrinkage Cracks Moving Joints Pipe Penetrations Settlement Cracks **Construction Joints** Joints in Precast Concrete Segments **Expansion Joints**

Turbo-Seal U is injected into leaking areas after drilling to the damaged waterproofing layer restoring its integrity.

m 7	Features	Benefits		
	Adhesive in wet conditions, active water	Ease of application and effectiveness.		
	leaks, and on surfaces with foreign			
	materials			
	Partial bentonite composition	Seeks out leaks and stops them.		
	Remains as a flexible gel. Durable to vibration and continuous movement.	Waterproofing is maintained. No loss of adhesion or separation.		
	One component. No mixing of chemicals, easy to apply, safe, easily stored and transported.	Cost-effective, reduce labor, save time, fewer mistakes in application.		
	High solids content, solvent free, made from recycled materials.	Non-toxic, non-flar application.	nable. Safe	
	Durable. Chemically resistant, resistant to freeze/thaw cycling, dry/wet cycling.	Effective in many c of environments.	lifferent types	
Packaging				
Turbo-Seal U is packaged in 20L (5.3 gallon) buckets. Yield		Technical Data Composition Turbo-Seal U is a polymer rubber infused with special adhesives.		
2	2.25 ft ² /gallon at 17/25cm wet thickness 1.00 ft ² /gallon at 5/12cm wet thickness	Testing		
Coverage may vary with the application technique used. Actual coverage and thickness used depends on the size of the void behind the structure and the porosity of the structure.		ASTM D1353-03 ASTM D2202-00 ASTM D5329-04 ASTM D56-05 ASTM D36-00 ASTM D2196-99 CGSB 37.5-M89		
Transportation		Typical Properties		
٦	urbo-Seal U is classified as a DOT	PROPERTY pH Specific Gravity	VALUE 7.5 ~ 8.0 1.1 ~ 1.3	
5	helf Life	Freezing Point Softening Physical State Appearance	Below -25 Below 30 Liquid Black	
		Viscosity Flash Point	3,600,000 Cps > 200 F	
S	itorage			

Store in unopened containers in clean, dry conditions at 40 to 80 F.

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Test Data

Turbo-Seal U

PROPERTY	RESULTS	TEST METHOD
Solids Content	75%	ASTM D1353
Flow	113 ± 4mm	ASTM D2202
Penetration, in mm	28 ±0.8mm	ASTM D5329 sec. 6
Flash Point	No observable flash point	ASTM D56
Toughness	1.64 ± 0.15 lbs	CGSB 37.50 – M89
Elongation	14.93 ± 1.82 inches	CGSB 37.50 – M89
Energy to Break	11.70 ± 1.08 in-lbs	CGSB 37.50 – M89
Adhesion	Rating of 1 (Excellent)	CGSB 37.50 – M89
Softening	Below 30C	ASTM D36
Viscosity	3,600,000 CPS @ 72 F	ASTM D2196
Water Absorption	Gain 7 ± 3.2 gr.	CGSB 37.50 – M89
Low Temperature Flexibility	No cracks	CGSB 37.50 – M89
рН	7.71	

Results shown are not intended as performance criteria for on-site installed material.

How to Apply Turbo-Seal U

Equipment

Turbo-Seal U should be applied with a rotor stator pump.

For most applications, use an injection pipe with an outer diameter of 12/20cm.

A hammer drill will be sufficient for most applications.

Preparation

Check the thickness of the concrete. Drill 12/20cm diameter holes to the waterproofing layer at 3.25' intervals.

Install the injection packers. For most applications, an injection pipe with an outer diameter of 12/20cm and a packer are used to make an injection opening and inspection holes at 3.25' intervals.

Injection

Inject **Turbo-Seal U** slowly at low pressure and continue injecting until counter flow from other drilled holes is seen. Remove the injection pipe from the drilled hole that **Turbo-Seal U** has counter flowed through. Fill the hole with non-woven cloth and polymer mortar. If multiple locations have been drilled, repeat process as necessary. Some applications may require an initial application of polyurethane or other material to fill excessive voids.

Clean Up

Dab excess **Turbo-Seal U** off of the pump with a cloth. Additional cleaning can be done with a citrus based cleaner.

Health and Safety

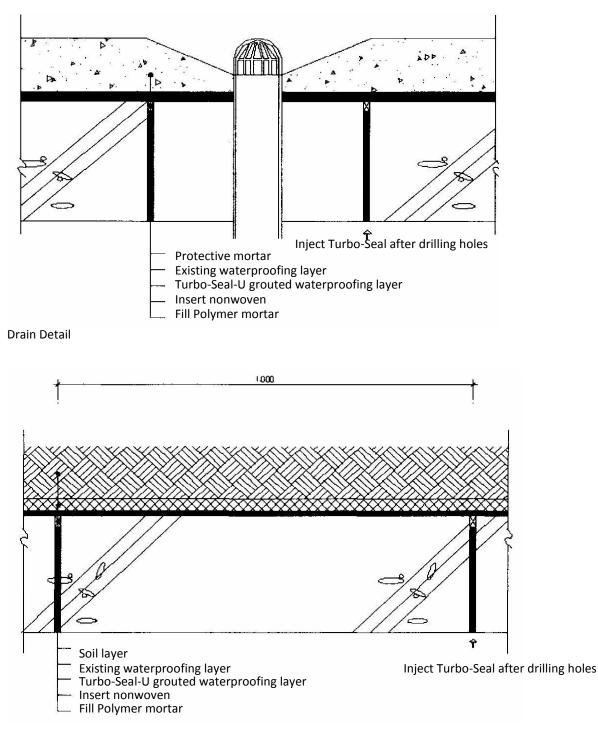
Avoid contact with skin and eyes. Wear suitable gloves and safety glasses. See MSDS.

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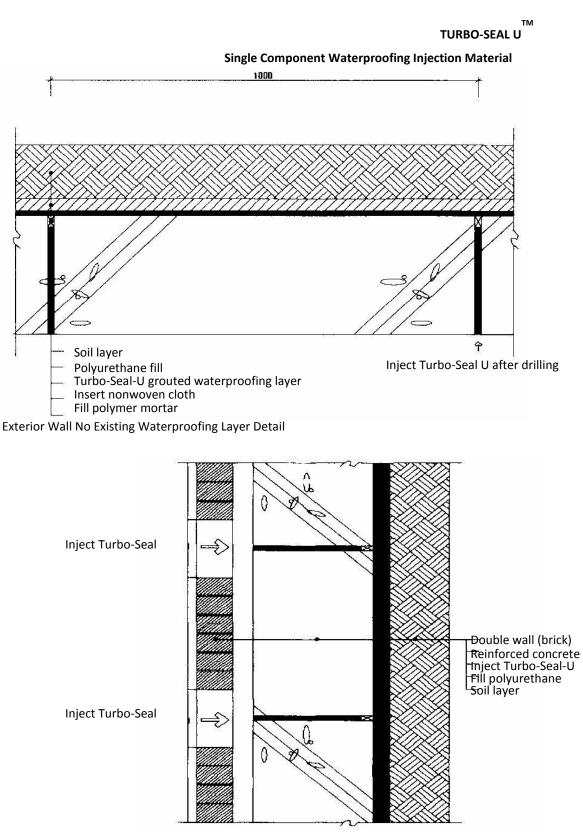




Exterior Wall Existing Waterproofing Layer Present

Turbo-Seal U Details Continued

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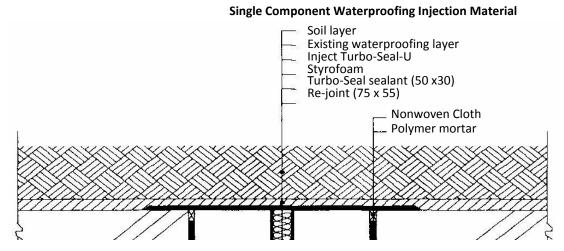


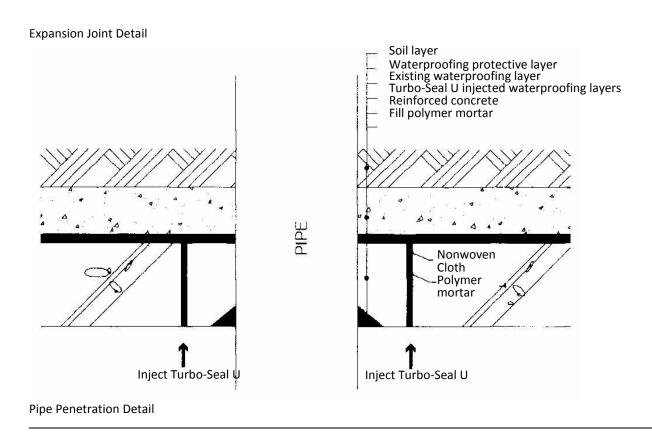
Double Wall Detail

Turbo-Seal U Details Continued

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