TURBO-SEAL P™

Single Component Liquid Waterproofing Material

PRODUCT DATA: Below Grade/Above Grade Waterproofing **2-201.45**

Description

Produced from recycled tire rubber, **Turbo-Seal P** is a single component, highly elastomeric polymer rubber gel, infused with special adhesives and bentonite. **Turbo-Seal P** is used in above and below grade construction. Due to its superior flexibility, adhesiveness and self sealing characteristics, **Turbo-Seal P** is ideal for effective, permanent waterproofing. **Turbo-Seal P** can be applied to green concrete, reducing overall project time and costs. **Turbo-Seal P** is applied by a rotor/stator pump and trowel.

Uses

Turbo-Seal P is applied in both above grade and below grade applications. **Turbo-Seal P** is suitable for new construction and repair applications.

Applications include the following types of waterproofing:

Horizontal positive side waterproofing
Vertical positive side waterproofing

Areas of application include:

Plaza decks
Elevator Pits
Poured wall foundations
Block wall foundations
Brick wall foundations
Granite/limestone foundations
Split slab construction
Diaphragm wall (blind side)
Green roofs
IRMA roofs

Turbo-Seal P is pumped onto green or existing concrete, and troweled on at a 80 - 100 mil thickness with ±20 mil variance.

Features	Benefits
Applies to green concrete and on surfaces with foreign materials. No primer necessary.	Ease of application and effectiveness.
Monolithic self healing membrane.	No seams, no water intrusion.
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, odor free, easily stored and transported.	Cost-effective, reduce labor, save time, fewer mistakes in application.
High solids content, solvent free, 25% recycled tire rubber, non-toxic.	Environmentally responsible. Contributes to LEED qualification
Durable. Chemically resistant, resistant to freeze/thaw cycling, dry/wet cycling.	Effective in many different types of environments.

Packaging

Turbo-Seal P is packaged in 20L (5.28 gallon) buckets.

Yield

17.50 avg. ft^2/gallon at 90 mil thickness

Actual coverage and thickness used depends on the area and type of the application.

Transportation

Turbo-Seal P is classified as a DOT non-hazardous material.

Shelf Life

Indefinite, when stored according to recommended storage guidelines.

Storage

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

Technical Data Composition

Turbo-Seal P is a polymer rubber gel infused with special adhesives and bentonite.

Testing

ASTM E-154-88
ASTM E-96-80
ASTM D-751
ASTM D56
ASTM D-412-98
ASTM D1353
ASTM D2196
ASTM C1135
ASTM C-836-89

Typical Properties

PROPERTY	VALUE
pH	7.5 ~ 8.0
Specific Gravity	1.1 ~ 1.3
Freezing Point	Below -25°
Softening	Below 30°
Physical State	Liquid
Appearance	Black
Viscosity	3,100,000 cps
Flash Point	> 200° F

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Test Data

Turbo-Seal P

PROPERTY	RESULTS	TEST METHOD
Solids Content	75%	ASTM D1353
Resistance to Decay	0% moisture permeation and weight change	ASTM E-154-88
Penetration, mm**	52 ± 0.9mm	ASTM C-836-89
Puncture Resistance**	109.9 ± 4.1 lbs	ASTM E-154-88
Flash Point	No observable flash point	ASTM D56
Tensile Strength**	55.8 ± 0.11 lbs	ASTM D-412-98
Elongation %	394%	ASTM C1135
Hydrostatic Pressure Resistance**	169 ± 3 lbs/in^2	ASTM D-751
Adhesion to Concrete	Rating of 1 (Excellent)	ASTM D-412-98
Crack Bridging	No cracks	ASTM C-836-89
Moisture Permeability**	.004 perms	ASTM E-96-80
Viscosity	3,100,000 CPS @ 72° F	ASTM D2196
Hardness**	52	ASTM C-836-89

* Results shown are not intended as performance criteria for on-site installed material.
**Results based on composite system with reinforced HDPE Turbo-Sheet.

How to Apply Turbo-Seal P

Equipment

Turbo-Seal P should be applied with a rotor stator pump and trowel.

For most applications, use 1" diameter hoses and a long handled trowel.

Preparation

Remove any foreign matter from concrete surface that extrudes from the surface more than 80mils with a broom or blower.

Preparation Cont.

No surface primer is necessary. **Turbo-Seal P** can be applied to green concrete.

Application

As **Turbo-Seal P** is pumped onto the surface, trowel it out in a smooth continuous movement making sure that **Turbo-Seal P** is spread evenly over the whole surface at an even 80-100 mil thickness ±20 mil.

Embed reinforced HDPE **Turbo-Sheet** into **Turbo-Seal P,** lapping seams by 6".

Clean Up

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

Health and Safety

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

For Technical Assistance call toll free at 866-99RESYS

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