

POLYUREA ELASTOMER 152

Chemical Resistant
Waterproofing Liner

GENERAL DESCRIPTION

AXEL POLYUREA ELASTOMER 152 is a chemical reactive cured rapid set 100% solid waterproofing lining system manufactured with superior flexible polyuria elastomeric polymers to produce a tough liner to form an excellent wear resistant resilient membrane over metal structures or concrete structure. It comes as a double component system and is easily sprayed with a mixer spray. It does not hydrolyze, leech or contaminates other substrates and is paintable. It is largely used in industrial application where there is interaction with constant or intermittent corrosive or abrasive action. It is commonly being used as a liner for water parks or water proofing to building roofing structures in new or old construction.

RECOMMENDED USES

Waterproofing lining to:

- * RC Flat Roof
- * Civil Structures
- * Water Parks

Industrial liners to:

- * Tank Lining
- * Metal Structures
- * Flooring Systems

CHARACTERISTICS & ADVANTAGES

- * Low yellowing
- * Rapid return to service
- * Durability & weather resistance
- * Excellent crack-bridging properties
- * No VOC
- * Abrasion resistant
- * Excellent bonding
- * Chemical resistant properties

COVERAGE

1.3 kg/m²/mm

COLOURS

Grey, Black, Green

PACKING

Part A: 200 kg/pail

Part B: 220 kg/pail

STORAGE

Store in a dry, cool and shaded place



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SURFACE PREPARATIONS

The substrate to be treated must be dry, clean and free from oil, grease and other contaminants. Cement laitance, loose particles, cured membranes, etc. must be removed. Any cracks, honeycomb or uneven surfaces should be repaired before application. New concrete structures should be cured for at least 28 days.

Clean up

Excess liquid of 'A' & 'B' material should be mixed together and allowed to cure, then disposed in a normal manner.

METHOD OF APPLICATION

* AXEL POLYUREA ELASTOMER 152 must be sprayed applied using suitable 2-part hot spray equipment with a mutual ratio of 1:1.

* The proportioning equipment utilized must be capable of supplying correct pressure and heat for the appropriate hose length on a consistent basis.

Notes:

AXEL POLYUREA ELASTOMER 152 might not be diluted under any circumstances.

Yellowing might occur due to exposure to UV radiation but will not affect its mechanical properties.

CLEANING OF TOOLS

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

TECHNICAL SPECIFICATIONS

No. of component	Two	
Mixing ratio	1:1 by volume	
Specific gravity	0.9-1.1	ASTM D792
Gel time (seconds)	≤ 15	
Tack free (seconds)	≤ 30	
Open for foot traffic (mins)	≥ 30	
Open for industrial traffic (hours)	≥ 4	
Tensile Strength (kgf/cm ²)	≥ 200	ASTM D412
Elongation %	≥ 400	ASTM D412
Tear Strength (kgf/cm)	≥ 85	ASTM D624
Shore D Hardness	≥ 45	ASTM D2240
Water absorption	≤ 2	ASTM D570
Compression set %	≥ 85	ASTM D 395
Resistance to puncture kgf	≥ 245	ASTM E154
Chemical resistance	ASTM D1308	
20% sulfuric acid	Excellent	
20% hydrochloric acid	Good but color change	
20% sodium hydroxide	Excellent	
Diesel	Good but color change	
10% phosphoric acid	Excellent	

SHELF LIFE

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

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