

**Hi-Tek Polymers, Inc., Elgin, Illinois 60123**

**Hi-Tek Polymers 5001T-Poxy Epoxy Crack Isolation Membrane**

**Description:** Hi-Tek Polymers 5001 T-Poxy Epoxy Crack Isolation Membrane is a 100% epoxy membrane that provides both waterproofing and crack isolation properties. It provides excellent adhesion and durability properties combined with the ability to suppress reflective cracking in terrazzo and other flooring systems. Hi-Tek Polymers 5001T-Poxy Epoxy Crack Isolation Membrane can be used with fiberglass mesh for joints and large cracks.

**Applications:** Hi-Tek Polymers 5001 T-Poxy Crack Isolation Membrane is recommended for use under terrazzo and seamless composition flooring, ceramic tile, quarry tile, marble and other hard flooring in washrooms, showers, promenade decks, between 5001 slabs, under computer access flooring, mechanical equipment rooms, toilet rooms, shopping malls, medical research animal housing, commercial kitchens, and projects such as:

**Advantages:**

A. Provides positive waterproofing and crack isolation properties.
B. Can be applied over new or existing surfaces.
C. No depression of slab required.
D. Contains no Organic solvents, and is VOC compliant.
E. Prevents reflective cracks due to substrate movement.

**Concrete Surface Preparation:**

1. Proper substrate preparation is required. Surface must be dry and free of contaminants
2. Concrete shall have an efficient moisture/vapor barrier (minimum 15 mls thickness)
3. Surface shall have acceptable concrete profile per CSP3-CSP5 guide line.
4. Concrete should have a minimum of 28 days cure time.

**Product Data:**

Mix Ratio:	1:1
Color	Gray
Volume Solids:	93% ± 2%, mixed
Weight Solids:	93% ± 2%, mixed
Viscosity, mixed	3,000 – 4,000 cps
Membrane Thickness-----recommended coverage	
	20 mils-----coverage -----40 sq. ft.
	40 mils-----coverage-----80 sq. ft.

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<b>Shelf Life:</b>		
Part A: 36 Months, unopened		
Part B: 36 Months, unopened		
Flash Point: 222°F (>104C), ASTM D 93, Mixed		
<b>Performance:</b>		
<b>Test Name</b>	<b>Test Method</b>	<b>Result</b>
Tensile Strength	ASTM D 412	1,200 psi
Thermal Cycling	ASTM C 884 (24HRS)	NO Cracking
Flammability		Self-Extinguishing
Hardness	ASTM D 2240	70-80
Adhesion	ACI 503R	300psi-concrete failure
Elongation at break	ASTM D 412	145%

**Application Instructions:**

1. Pre-mix Epoxy A (Resin) for 1 minute using low speed drill
2. Add equal portion of B Hardener by volume and mix with low speed drill for three minutes and until uniform.
3. Do not whip air into the material
4. Pour mixed material onto the substrate and pull out using a 1/8" v-notched squeegee to yield 20 mls WFT.
5. Product and air temperature must be a minimum 60°F for 24 hours prior to, during and after application.
6. Do not use in temperatures below 60°F

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