

Environmental Protective Coatings, Inc.
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SPEC/DATA

Aliphatic Pure Polyurea

PRODUCT DESCRIPTION

Aliphatic Pure Polyurea is 100% solids, state of the art, spray applied pure polyurea elastomeric surfacing membrane. This seamless system is an aliphatic polyurea which is color fast and resists yellowing. Aliphatic Polyurea is tack free in 3 minutes which facilitates short down times. This membrane achieves an extremely tough, flexible, chemical and abuse resistant finish for a wide range of applications. Aliphatic Polyurea has no VOC's.

ADVANTAGES

- Smoother finish.
- Higher elongation ,greater flexibility.
- Almost int gel time.
- Fast cure, short down time.
- Can be built up to any thickness in one application.
- Seamless and flexible.
- Retains physical properties at -20 F to 300 F.
- Resists thermal shock.
- No VOC's, non-toxic.
- Waterproofing.
- USDA Approved.
- Resistant to many chemicals.
- Bonds to most substrates.
- Aliphatic: Will resist yellowing.
- Bridges moving cracks to 1/16".
- High impact and abuse resistant – replaces fiberglass and FRP.

USES

- Floor & Wall Systems
- Cold Storage Areas
- Clean Room Walls, Ceilings and Floors
- Pharmaceutical Facilities
- Hospitals and Research Labs
- Food and Beverage Processing Areas
- Correctional Facilities
- Schools
- Exterior Protective Coating
- Industrial Plants
- Mechanical Rooms

APPLICATIONS

Correct equipment is critical to the installation. Use only 1:1 ratio, heated plural component equipment, similar to the H-2000, H-3500, and the new H-20/35 series with a GX7, GX7-400, consult a EPC representative for more information. Polyurea must be sprayed at a minimum of 2000 psi and 160 F at the gun.

INSTALLATION

Consult EPC for an approved applicator and for job specifications. Apply to clean dry sound surfaces free of loose particles or other foreign matter. Consult EPC for surface preparation, repair procedures, project conditions, and maintenance.

LIMITATIONS

- Intended for industrial use
- Mix B component **THOROUGHLY** with a collapsible drum mixer before use.
- Bond to weak substrates is limited to the strength of the substrate.
- EPC for Chemical Resistance
- Do not install i n moisture/vapor conditions>3 Lbs. MVT>5%. Moisture content.
- Primer may be required.
- Refer to MSDS, Instruction Sheet and Product Labels.
- Avoid moisture contamination in containers.

PHYSICAL PROPERTIES	TEST METHOD	VALUE
Elongation	D-638	500%
Tensile Strength	D-638	2500 psi
Shore Hardness	D-2240	D-50
Tear Strength	D-624	460 pli
Moisture Vapor Transmission	E-96	0.02 perm
Abrasion Resistance (wt. Loss mg)		
1000g 1000 rev. H-18	D-4080	230mg
1000g. 1000 rev. cs 17	D-4080	6 mg
100 Modulus (psi)	D-638	1140 psi
100 Modulus (psi)	D-638	1485 psi
Coefficient of Thermal Expansion	C-531	4x10/5 (In/In/C)
Flash Point, components		>200 F
Flame Spread	E-108	Class A (Comparable to UL 790)
Gel Time / Tack Free		45 Sec./3 Min.