

ENVIRONMENTAL PROTECTIVE COATINGS, INC

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PRODUCT/DATA

Poly-Flo HiE Pure Polyurea

PRODUCT DESCRIPTION

Poly-Flo HiE is a sprayable, VOC free , Two component, pure polyurea elastomeric membrane. Its low viscosity at operational temperatures makes it a product ideal for both in-plant and field applications. Unique properties of this coating are its rapid cure time and its insensitivity to moisture.

ADVANTAGES

- Almost instant gel time
- Can be Handled/Walked on in 1 minute
- Can be built up to any thickness in one application
- Seamless and flexible
- Application at -20 F to + 300 F
- Resists thermal shock
- Resistance to many chemicals
- Waterproofing
- No VOC's
- USDA Approved

USES

- **Earthen Containment**
- Pipe Coating
- Containment Areas
- Floor and Wall Systems
- Waste Water
- Cold Storage Areas
- Tank Linings
- Cooling Tower Basins
- Pulp and Paper Mills
- Industrial Plants
- Mechanical Rooms
- Aquariums
- Fertilizer Plants
- Bridges
- Manhole Vaults
- Wet Wells
- Dry Wells
- Street Lights
- Lift Station Waterproofing
- Zoo Enclosures
- Dairy Barn Walls and Floors
- Floating Docks

APPLICATION

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 information.. Poly -Flo HiE 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 specific Specifications.. Apply to clean dry sound surfaces free of loose particles or other foreign matter. Consult EPC for surface preparation and repair procedures.

LIMITATIONS

- Intended for Industrial use
- Poly-Flo HiE is an aromatic, although physical properties will change, over a period of time color change will occur.
- Consult EPC for corrosive applications.
- Do not install in Moisture/Vapor conditions>Lbs. MVT >5% moisture content.
- Primer may be required.
- Avoid moisture contamination in containers.
- Refer to MSDS, instruction sheet and product labels.

Physical Properties

Test Method

Value

Elongation	D-638	800%
Tensile Strength	D-638	3000 psi
Shore Hardness	D-2240	D-50
Tear Strength	D-624	475 pli
Moisture Vapor Transmission	E-96	0.02 perm
Abrasion Resistance (wt. Loss mg)		
1000g., 1000 rev. H-18	D-4060	170 mg
1000g., 1000 rev. CS17	D-4060	< 5 mg
100% Modulus (psi)	D-638	1600 psi
300% Modulus (psi)	D-638	1900 psi
Coefficient of Thermal Expansion	C-352	4x10/3 (in/in/C)
Flash Point, components		>200 F
Flame Spread	E-108	Class (Comparable to UL 790)
Gel Time/Tack Free		6 to 20 seconds
Flexibility Testing	D-2794	>160in. lbs.
Gardner Impact (on 1/32" Steel Panels)		
Direct and Indirect		
Mandrel Bend		
Conical Bend (on 1/32" Steel Panels)	D-522	Pass
1/4 " Mandrel 25 C (free film 30-50 mils)	D-1737	Pass
1/4" Mandrel -20C (free film 35-50 mils)	D-1737	Pass
Puncture Resistance, Lbs.	D-4833	325 lbs.