



VAPOR INTRUSION LINER Composite Pure Spray Polyurea

Roboliner VI is the first EVOH/polyurea multilayered membrane developed specifically for Brownfields and Vapor Intrusion Sites. This is the first commercially available liner that combines the unmatched chemical resistance and Diffusion Coefficients of EVOH and the physical properties and low perm rates of a pure polyurea (See Tables Below). This combination of materials is more chemical resistant and more construction friendly than any other liner on the market. Because it is manufactured in a controlled environment the QA/QC is conducted at the plant and it arrives fully cured and ready to resist chemicals, unlike field sprayed liners. Another key advantage is its rapid installation. Any liner installer, consultant, or GC, understand that rapid installation is key to keeping a construction project on budget.

- Pre-Manufactured robotically in a controlled environment
- Less time on site, lower mobilization cost, and reduced shut down time
- Meets EPA regulations for secondary containment of stored hydrocarbons
- Reduces material waste that goes to the landfill
- Cost Efficient
- Remains flexible in the cold, extends application season
- Application range from - 40°F - 225°F not affected by temperature
- Excellent UV Stability
- Seals seamlessly around penetrations and can be applied on vertical walls

Patent US 8,500,941 B2 August 6, 2013
 Patent US 9,056,714 B2 June 16, 2015
 Patent Canada 2683244 C 2014/11/18



Roboliner VI has evolved from the well established family of secondary containment products that have been in service for over 20 years! After 3 years of R&D the Roboliner VI Technology was created featuring a multi layer EVOH and Robotically Applied Polyurea

Compound	Diffusion Coefficient	Test Method
Benzene	$3.8 \times 10^{-15} \text{m}^2/\text{s}$	At 23°C, estimated from monolayer film diffusion and sorption experiments conducted at Queen's University, Canada
Toluene	$4.5 \times 10^{-15} \text{m}^2/\text{s}$	
Trichloroethylene	$8.3 \times 10^{-15} \text{m}^2/\text{s}$	
Radon	$5.1 \times 10^{-14} \text{m}^2/\text{s}$	At 22±2°C, estimated from work at CTU(Prague), method K124/01/09 (method A of ISO/CD 11665-10)

Typical Physical Property	ASTM	Results	
Hardness	D-2240	37 Shore D	
Tensile Strength PSI	D-638	2000	2500
Elongation	D-638	175%	
Die C Tear Strength	D-624	445 pli	34 lbs*
Trouser Tear Strength	D-624	95 pli	7.5 lbs*
Bursting Strength	D-751	415 lbf	171 psi*
Puncture Resistance	D-751	67 lbf	
Moisture Vapor Transmission	ASTM E-96	0.02 perm	