

Protech VOC Flex

GAS PROTECTION

DESCRIPTION

Protech VOC Flex complies with CIRIA C748 and BS8485:2015. It is a high performance 6 layer flexible proprietary reinforced VOC gas barrier and is suitable for use on brownfield sites that require protection from dangerous contaminants such as hydrocarbons. The Protech VOC Flex has been developed to ease installation on site due to the flexibility of the membrane. It is also suitable as a high performance damp proof membrane.



INSTALLATION

Protech VOC Flex can be sealed either by welding or using Protech GM Tape. It is considered prudent that tape joints should not be used where there will be no long term compression of the membrane or where there is a likelihood where the membrane will come into direct contact with the VOCs in a liquid state.

In areas where the membrane crosses cavity walls or internal single skin walls, Protech VOC Flex Starter Band should be used in conjunction with Protech VOC Flex Internal and External preformed corner units. Pipe penetrations should be sealed with Protech VOC Top Hats or Protech GM Flashing Strips. Stanchions and columns should be sealing with Protech GM Primer and Protech GM Flashing strips (Photos, isometric and standard details are available on our website).

KEY FEATURES

- Exceptional chemical resistance
- Gas resistant
- Additional damp proofing protection
- Flexible membrane to ease installation on site
- Robust & durable multi-layer membrane
- High resistance to puncturing

ACCESSORIES

- Protech VOC Flex Starter Band
- Protech VOC Tophats
- Protech GM Flashing
- Protech VOC Corner Units
- Protech GM Primer
- Protech GM 3mm Protection Board
- Protech GM Protection Fleece
- Protech GM Tape
- Protech Liquid Applied Gas Membrane (LAGM)



PROPERTIES

PROPERTY		UNIT	MEAN	METHOD
Roll size		m	2 x 50	
Thickness		mm	0.55	
Weight		g/m ²	564	DIN EN ISO 536
Tensile strength	MD CD	N/50mm	700 640	EN 12311-1 +Mods EN 13859-1
Elongation	MD CD	%	30 25	EN 12311-1 +Mods EN 13859-1
Nail tear resistance	MD CD	N	500 540	EN 12311-1

Protech VOC Flex

CHARACTERISTICS	TEST METHOD		
Methane Permeability	ISO 15105-1	✓	
Diesel Permeability	ISO 6179:2010	✓	
Petrol Permeability	ISO 6179:2010	✓	
Xylene Permeability	ISO 6179:2010	✓	
Toulene Permeability	ISO 6179:2010	✓	
Vinyl Chloride	ISO 15105-2	✓	
Ethyl Benzene	ISO 15105-2 EN 14414 Method C	✓	
Trichlorethene	ISO 15105-2	✓	
Xylene (O, M, P)	ISO 15105-2 EN 14414 Method C	✓	
Naphthalene	ISO 15105-2 EN 14414 Method C	✓	
Benzene	ISO 15105-2 EN 14414 Method C	✓	
Toluene	ISO 15105-2 EN 14414 Method C	✓	
Hexane	ISO 15105-2 EN 14414 Method C	✓	
Tetrachlorethene	ISO 15105-2	✓	
Bromoform	ISO 15105-2	✓	
Carbon Tetrachloride	ISO 15105-2	✓	
Chloroform	ISO 15105-2	✓	
Ethylene Dichloride	ISO 15105-2	✓	
Methyl Teriary Butyl Ether	ISO 15105-2	✓	
Trichloroethylene (TCE)	EN 14414 Method C	✓	
Perchloroethylene (PCE)	EN 14414 Method C	✓	
Determination of Chemical Resistance	Test Method	Properties	
Hydrolysis under Acid Conditions	BS EN 14414 Method A	Tensile Strength Mpa MD	Pass
		Tensile Strength Mpa CD	Pass
		Tensile Elongation % MD	Pass
		Tensile Elongation % CD	Pass
	NO VISUAL DEGRADATION		
Hydrolysis under Basic Conditions	BS EN 14414 Method B	Tensile Strength Mpa MD	Pass
		Tensile Strength Mpa CD	Pass
		Tensile Elongation % MD	Pass
		Tensile Elongation % CD	Pass
	NO VISUAL DEGRADATION		
Solvation & Swelling (Diesel/Parafin/Lubrication Oil)	BS EN 14414 Method C	Tensile Strength Mpa MD	Pass
		Tensile Strength Mpa CD	Pass
		Tensile Elongation % MD	Pass
		Tensile Elongation % CD	Pass
	NO VISUAL DEGRADATION		
Synthetic Leachate	BS EN 14414 Method D	Tensile Strength Mpa MD	Pass
		Tensile Strength Mpa CD	Pass
		Tensile Elongation % MD	Pass
		Tensile Elongation % CD	Pass
	NO VISUAL DEGRADATION		