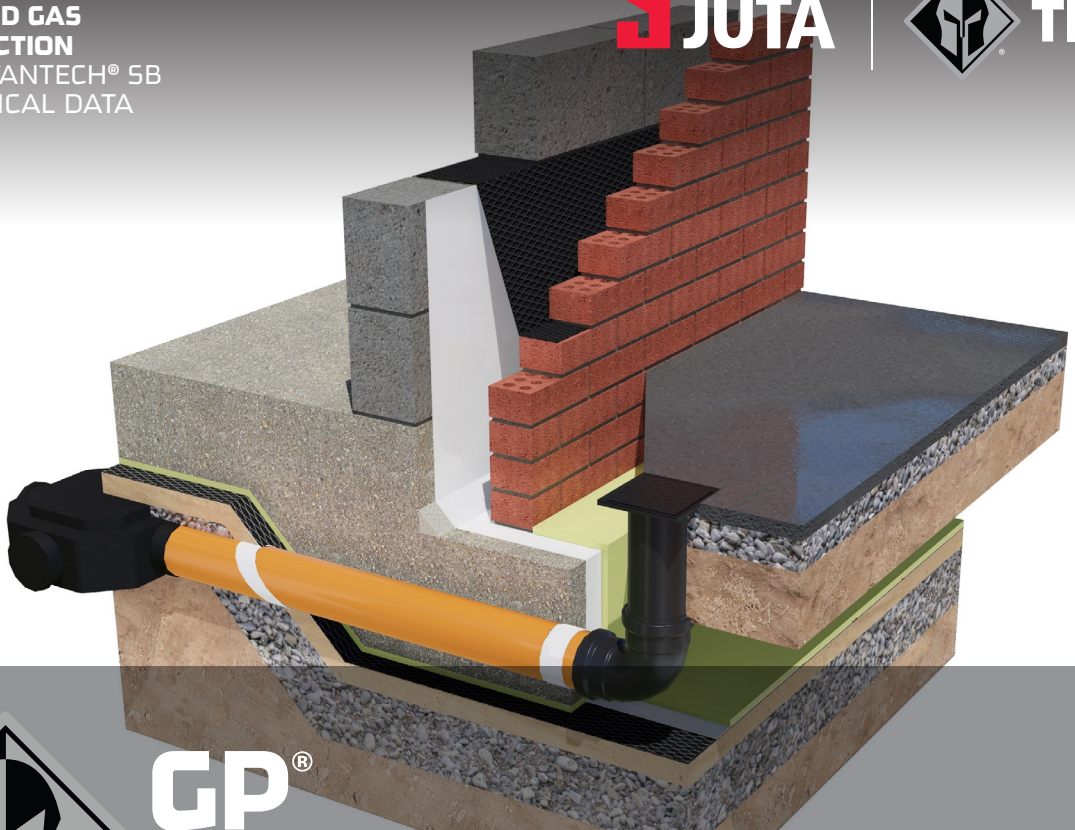
GROUND GAS PROTECTION
GP® TITANTECH® SB
TECHNICAL DATA SHEET



GP® TITANTECH® SB

GP® TITANTECH® SB - Gas and Hydrocarbon Resistant Starter Band (SB) is a unique multi-layer product specifically designed and manufactured to act as the Methane, Carbon dioxide, VOC, Radon & Moisture resistant damp proof course.

GP® TITANTECH® SB complies with the latest codes of practice as published by BRE, CIRIA and BSI (BS EN 14909, BS8485:2015 and C748). Suitable to act as the High Performance DPC for vertical and horizontal applications. Superior adhesion to mortar is essential for buildings of 3+ storey height.

Handling

Roll weights can be in excess of 5 kg and hence appropriate care and equipment is required for unloading and handling.

Storage

Rolls of JUTA GP® TITANTECH® SB should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged but should be protected from exposure to UV. JUTA GP® TITANTECH® SB is classified as non-hazardous and is chemically inert such that it will not react with any acid or alkali environment in which it is used.

Thickness	0.75 mm
Width	300mm 450 mm 600 mm 900 mm
Length	20 m
Weight	750 g/m²

Named Accessory in Certification

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Rev 2024

TITANTECH®

For developers of brownfield and contaminated sites the TITANTECH® family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

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Feature	Characteristics	Test Method	GP® TITANTECH® SB
Physical Properties	Thickness	EN 1849-2	0.75 mm
	Width	EN 1849-2	300 mm / 450 mm / 600 mm / 900 mm
	Length	EN 1849-2	20 m
	Weight	EN 1849-2	750 g/m^2
Hydraulic Properties	Water Vapour Transmission Rate	EN 1931	0.11-0.18 g/m^2/day
	Watertightness (60 kPa)	EN 1928	Pass
	Watertightness (196 kPa - 20m Water Head) (Basement Application)	EN 1928	Pass
Mechanical Properties	Resistance to Static Load	EN 12730 - B	≥ 20 kg
	Puncture Resistance	EN 12236	≥ 1.25 kN
	Tensile Strength (MD)	EN 12311-1	> 800 N/50mm
	Tensile Strength (CMD)	EN 12311-1	> 600 N/50mm
	Tensile Elongation (MD/CMD)	EN 12310-1	> 550%
	Tear Resistance (MD/CMD)	EN 12310-1	> 450 N
	Resistance to Impact	EN 12691-B	> 950 mm
	Reaction to Fire	EN 13501-1	E Class
	Resistance to Artificial Ageing	EN 1296 / EN 1928	Pass
	Resistance to Chemicals	EN 1847 / EN 1928	Pass
Compliance and Certification	CE Mark - EN13967:2012		
	NHBC Standards Compliant		
	BS EN 14909:2012 Compliant		
	BS 6515 Compliant		
	CIRIA C748 Compliant		
	BS 8485:2015 Compliant		
Vapour Permeability 100% Concentration	Transmission Rate of Benzene	EN ISO 15105-2	< 3.6 mg/m^2/day
	Transmission Rate of Toluene	EN ISO 15105-2	< 13.8 mg/m^2/day
	Transmission Rate of Ethyl Benzene	EN ISO 15105-2	< 2.7 mg/m^2/day
	Transmission Rate of Xylenes (M,P,O)	EN ISO 15105-2	< 7.7 mg/m^2/day
	Transmission Rate of Hexane	EN ISO 15105-2	< 0.6 mg/m^2/day
	Transmission Rate of Vinyl Chloride	EN ISO 15105-2	< 0.05 mg/m^2/day
	Transmission Rate of Trichloroethene (TCE)	EN ISO 15105-2	< 54.7 mg/m^2/day
	Transmission Rate of Tetrachloroethene (PCE)	EN ISO 15105-2	< 26.2 mg/m^2/day
	Transmission Rate of Naphthalene	EN ISO 15105-2	< 0.0006 mg/m^2/day
	Transmission Rate of CIS-1,2-Dichloroethylene	EN ISO 15105-2	< 1.1 mg/m^2/day
Gas Permeability	Methane Permeability	EN ISO 15105-1	0.13 ml/m^2/day/atm
	Methane Permeability (Jointed)	EN ISO 15105-1	1.00 ml/m^2/day/atm
	Carbon Dioxide Permeability	EN ISO 15105-1	3.01 ml/m^2/day/atm
	Vinyl Chloride Gas Permeability	EN ISO 15105-1	0.04 ml/m^2/day/atm
	Radon Permeability	K124/02/195	1.0 x 10^{-12} m^2/S

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Durability and Chemical Resistance	Chemical Resistance - Sulfuric ACID (10% Solution of Sulfuric Acid (H_2SO_4)) 50° For 56 Days	EN 14414-A	TENSILE STRENGTH RETAINED 100%
			RESULT - PASS
	Chemical Resistance - BASIC (Calcium Hydroxide Saturated Suspension) 50° For 56 Days	EN 14414-B	TENSILE STRENGTH RETAINED 100%
			RESULT - PASS
	Chemical Resistance - SOLVENTS (35% Diesel, 35% Paraffin, 30% Oil Hd3O (Vol)) 50° For 56 Days	EN 14414-C	TENSILE STRENGTH RETAINED > 80%
			RESULT - PASS
	Chemical Resistance - SYNTHETIC LEACHATE (Mixture of 14 Acids, Chlorides, Sulphates & Phosphates) 50° For 56 Days	EN 14414-D	TENSILE STRENGTH RETAINED 100%
			RESULT - PASS
	Resistance to Leaching - HOT WATER (Deionised Water) 50° For 56 Days	EN 14415-A	TENSILE STRENGTH RETAINED 100%
			RESULT - PASS
	Resistance to leaching - AQUEOUS ALKALINE (Saturated Calcium Hydroxide) 50° For 56 Days	EN 14415-B	TENSILE STRENGTH RETAINED 100%
			RESULT - PASS
	Resistance to Leaching - ORGANIC ALCOHOL (30% Methanol, 30% Isopropanol, 40% Glycol) 50° For 56 Days	EN 14415-C	TENSILE STRENGTH RETAINED 100%
			RESULT - PASS
	Chemical Resistance - BENZENE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 95% (MD), 102% (CMD)
			RESULT - PASS
	Chemical Resistance - TOLUENE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 94% (MD), 91% (CMD)
			RESULT - PASS
	Chemical Resistance - ETHYL BENZENE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 99% (MD), 97% (CMD)
			RESULT - PASS
	Chemical Resistance - XYLENES - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 91% (MD), 106% (CMD)
			RESULT - PASS
	Chemical Resistance - TCE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 99% (MD), 93% (CMD)
			RESULT - PASS
	Chemical Resistance - PCE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 93% (MD), 93% (CMD)
			RESULT - PASS
	Chemical Resistance - NAPTHALENE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 101% (MD), 93% (CMD)
			RESULT - PASS
	Chemical Resistance - HEXANE - 100% Saturated Concentration	EN 14414-D (MOD)	TENSILE STRENGTH RETAINED 99% (MD), 104% (CMD)
			RESULT - PASS

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Feature	Characteristics	GP® TITANTECH® SB
Shear Strength	Pre-Compression 0.2 N/mm²	Characteristic Shear Strength 0.14 N/mm²
	Pre-Compression 0.6 N/mm²	Characteristic Shear Strength 0.34 N/mm²
	Pre-Compression 1.0 N/mm²	Characteristic Shear Strength 0.52 N/mm²

JUTA UK
For additional information or assistance, please contact JUTA UK directly.

Installation
JUTA GP® TITANTECH® SB must be installed in accordance with the guidelines laid out in BS8215:1991, BS8000: part 3 and BS 5628. It can be used in most common floor constructions and is installed in a similar manor to damp proof membrane. For external walls the DPC should be applied 150mm above the adjoining surface and should be linked to a DPM or Gas Resistant DPM in solid floors. The DPC should be applied to a fresh bed of mortar, completely free of projections that may puncture the material or impede the DPC from lying flat.

Joining and Sealing
Sheets of JUTA GP® TITANTECH® SB must be clean, dry and free from dirt and grease before application of joining tape. JUTA GP® DPC may also be heat welded to the underlying Gas resistant membrane.

Accessory Products
JUTA GP® TITANTECH® SB is an accessory product for use in combination with GP® 1, GP® 2, GP® H, GP® SAM and GP® TITANTECH® gas protective membranes. It is also compatible with a range of DPM and other DPC materials.