

PUDLO GP Titantank

PUDLO GP Titantank is a self-adhesive Membrane composed of self-adhesive version of PUDLO GP Titantank and a layer of siliconized polypropylene release film

PUDLO GP Titantank is a post applied fully bonded system used to protect structures against ground water and gases which may otherwise penetrate the structure.



USES

- PUDLO GP Titantank protects structures from gas, including Radon, CO₂, Methane, Hydrocarbons, VOCs and Moisture
- PUDLO GP Titantank can be used as a post applied waterproofing and damp-proof membrane

APPLICATION & INSTALLATION

Refer to PUDLO GP Titantank installation manual

STORAGE & SHELF LIFE

- Rolls of PUDLO GP Titantank should be stored horizontally, and pallets should not be stacked on top of one another.
- PUDLO GP Titantank should be stored in a cool, dry place, protected from exposure to rain, sun, heat and cold temperatures prior to installation.
- Exposure to sunlight for extended periods of time could cause difficulty with removal of the polyethylene release film.

PRODUCT DIMENSIONS, COVERAGE & PACKAGING

- Roll size: 0.9m x 20m
- Each Roll covers an area of 18m², always make sure to include roll overlaps when measuring. Allow for a minimum of 100mm overlap when joining two separate sheets together.
- Product available in black

BENEFITS

- Easy to install
- Can be a fully welded system
- Can be used in all weather conditions due to its all-weather adhesive backing
- Conforms with the latest codes of practice from CIRIA 748 and BRE 211
- Conforms to with BS8485:2015 +A1:2019 protection from Methane and Carbon Dioxide

ANCILLARY PRODUCTS

- PUDLO Self Seal Primer (2 coats)

HEALTH & SAFETY

PUDLO GP Titantank rolls are heavy - in excess of 20kg. Please refer to PUDLO GP Ultra Seal MSDS for more information.

FIRE

This product is not flammable

FURTHER INFORMATION

For more accessories used with PUDLO GP Ultra Seal, please contact: technical@pudlo.com



TYPE A GAS & WATERPROOFING

TECHNICAL DATA

PHYSICAL PROPERTIES

Characteristics	Test method	Unit	PUDLO GP Titantank
Thickness	EN 1849-2	mm	1.2
Width	EN 1849-2	m	1 or 0.3
Length	EN 1849-2	m	20
Weight	EN 1849-2	g/m ²	1,350

HYDRAULIC PROPERTIES

Characteristics	Test method	Unit	PUDLO GP Titantank
Water vapour rate	EN 1931	g/m ² /day	0.14
Water tightness (60kPa)	EN 1928	-	PASS
Water tightness (196kPa - 20m water head)*	EN 1928	-	PASS

*basement application

MECHANICAL PROPERTIES

Characteristics	Test method	Unit	PUDLO GP Titantank
Resistance to static load	EN 12730	kg	>20
Tensile strength (MD)	EN 12311-1	N/50mm	>550
Tensile strength (CMD)	EN 12311-1	N/50mm	>400
Tear resistance (MD)	EN 12310-1	N	>300
Tear resistance (CMD)	EN 12310-1	N	>300
Resistance to impact	EN 12691-B	N	650
Reaction to fire	EN ISO 11925-2	Class	E
Resistance to artificial ageing	EN 1296	-	PASS
Resistance to chemicals	EN 1847	-	PASS

TYPE A GAS & WATERPROOFING

TECHNICAL DATA

VAPOUR PERMEABILITY - 100% CONCENTRATION

Characteristics	Test method	Unit	PUDLO GP Titantank
Transmission rate of benzene	EN ISO 15105-2	mg/m ² /day	2250
Transmission rate of toluene	EN ISO 15105-2	mg/m ² /day	2370
Transmission rate of ethyl benzene	EN ISO 15105-2	mg/m ² /day	400
Transmission rate of xylene (mpo)	EN ISO 15105-2	mg/m ² /day	690
Transmission rate of hexane	EN ISO 15105-2	mg/m ² /day	98.25
Transmission rate of vinyl chloride	EN ISO 15105-2	mg/m ² /day	36.44
Transmission rate of trichloroethene (TCE)	EN ISO 15105-2	mg/m ² /day	1.44

GAS PERMEABILITY

Characteristics	Test method	Unit	PUDLO GP Titantank
Methane permeability	EN ISO 15105-1	ml/m ² /day/atm	0.13
Methane permeability (welded joint)	EN ISO 15105-1	ml/m ² /day/atm	1.00
Carbon dioxide permeability	EN ISO 15105-1	ml/m ² /day/atm	3.01
Transmission rate of vinyl chloride gas	EN ISO 15105-1	ml/m ² /day/atm	0.04
Radon permeability	SP Method 3873	m ² /s	3.0 x 10 ⁻¹²

TYPE A GAS & WATERPROOFING

TECHNICAL DATA

DURABILITY & CHEMICAL RESISTANCE

Characteristics	Test method	Unit	PUDLO GP Titantank
Chemical Resistance - SULPHURIC ACID (10% solution of Sulphuric Acid (H2SO4)) 50° for 56 days	EN 14414 – A	Tensile Strength	100%
		Result	PASS
Chemical Resistance - BASIC (Calcium Hydroxide saturated suspension) 50° for 56 days	EN 14414 – B	Tensile Strength	100%
		Result	PASS
Chemical Resistance – SOLVENTS (35% Diesel, 35% Paraffin, 30% Oil HD30 (vol) 50° for 56 days	EN 14414 – C	Tensile Strength	100%
		Result	PASS
Chemical Resistance - SYNTHETIC LEACHATE (Mixture of 14 acids, chlorides, sulphates and phosphate) 50°C for 56 days	EN 14414 – D	Tensile Strength	100%
		Result	PASS
Resistance to Leaching - HOT WATER (Deionised water) 50°C for 56 days	EN 14415 - A	Tensile Strength	100%
		Result	PASS
Resistance to Leaching - AQUEOUS ALKALINE (Saturated Calcium Hydroxide) 50°C for 56 days	EN 14415 - B	Tensile Strength	100%
		Result	PASS

**Table above, values are typical, with the exception of thickness, which is nominal. Typical indicates the mean value derived from the samples taken for any one test as defined in the BS EN ISO standard - usually the mean of five samples. Nominal is a guide value*

SUPPORTING DOCUMENTS

- PUDLO GP Titantank MSDS
- PUDLO GP Titantank & PUDLO Titanflex Installation Manual
- Product webpage - please see www.pudlo.com

PRODUCT NUMBER

4165/0036