

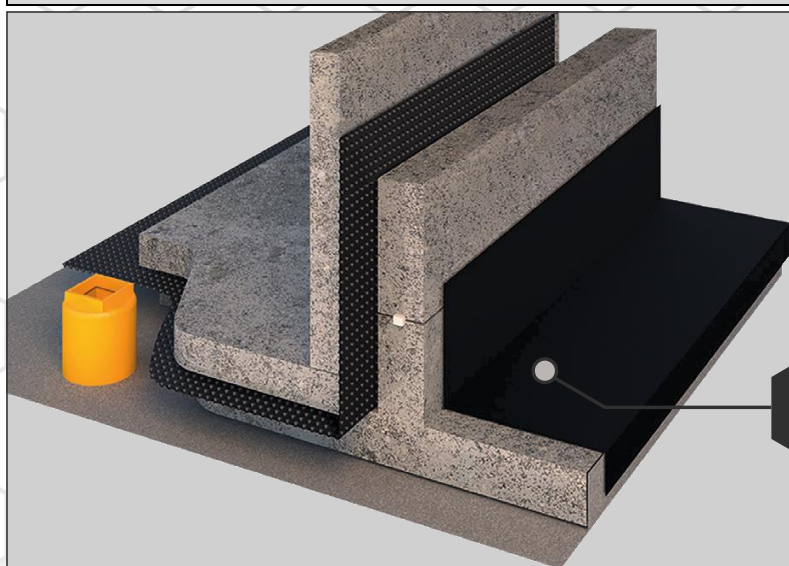
GP® TITANTANK

Rev: June 2019



GP® TITANTANK - Self-adhesive version of the GP® TITANFLEX; composed of self-adhesive with an upper surface finish of GP® TITANFLEX, and a lower surface finish of siliconized polypropylene release film. GP® TITANTANK is used for the Gas/Waterproofing/Tanking of underground structures where harmful ground gases are anticipated, as a post-applied fully bonded membrane.

| CHARACTERISTICS | TEST METHOD | UNIT | GP® TITANTANK |
|--|-------------------|-----------------------|---------------|
| PHYSICAL PROPERTIES | | | |
| 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 | 1350 |
| HYDRAULIC PROPERTIES | | | |
| WATER VAPOUR TRANSMISSION RATE | EN 1931 | G/M ² /DAY | 0.11-0.18 |
| 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 | Kg | ≥20 |
| PUNCTURE RESISTANCE | EN 12236 | kN | ≥2.0 |
| TENSILE STRENGTH (MD) | EN 12311-1 | N/50mm | >550 |
| TENSILE STRENGTH (CMD) | EN 12311-1 | N/50mm | >400 |
| TENSILE ELONGATION (MD/CMD) | EN 12310-1 | % | >550 |
| TEAR RESISTANCE (MD/CMD) | EN 12310-1 | N | >300 |
| RESISTANCE TO IMPACT | EN 12691-B | mm | >650 |
| REACTION TO FIRE | EN 13501-1 | CLASS | E |
| 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 | | | |
| CIRIA C748 COMPLIANT [VOC BARRIER] | | | |
| BS 8485:2015 COMPLIANT [METHANE AND CARBON DIOXIDE BARRIER] | | | |
| BS 8102:2009 COMPLIANT [TYPE A WATERPROOFING] | | | |



GP® TITANTANK

- ⊕ Quick and easy installation.
- ⊕ Can be a fully welded system.
- ⊕ High resistance to ground gases.
- ⊕ Exceptional Chemical Resistance.
- ⊕ Manufactured to meet the most up to date British Standards and guidance.
- ⊕ Long Term Durability (performance guaranteed for the lifetime of the building).

Contact us to find out more information.
info@juta.co.uk | 01772 754177 | JUTA.CO.UK
 Melton Grove Works, Church Road, Lytham, FY8 5PL

JUTA



riba
product selector

TECHNICAL DATA

| CHARACTERISTICS | TEST METHOD | UNIT | GP® TITANTANK |
|--|------------------|----------------------------|-------------------------|
| VAPOUR PERMEABILITY 100% CONCENTRATION | | | |
| TRANSMISSION RATE OF BENZENE | EN ISO 15105-2 | mg/m ² /day | <3.6 |
| TRANSMISSION RATE OF TOLUENE | EN ISO 15105-2 | mg/m ² /day | <13.8 |
| TRANSMISSION RATE OF ETHYL BENZENE | EN ISO 15105-2 | mg/m ² /day | <2.7 |
| TRANSMISSION RATE OF XYLENES (M,P,O) | EN ISO 15105-2 | mg/m ² /day | <7.7 |
| TRANSMISSION RATE OF HEXANE | EN ISO 15105-2 | mg/m ² /day | <0.6 |
| TRANSMISSION RATE OF VINYL CHLORIDE | EN ISO 15105-2 | mg/m ² /day | <0.05 |
| TRANSMISSION RATE OF TRICHLOROETHENE (TCE) | EN ISO 15105-2 | mg/m ² /day | <54.7 |
| TRANSMISSION RATE OF TETRACHLOROETHENE (PCE) | EN ISO 15105-2 | mg/m ² /day | <26.2 |
| TRANSMISSION RATE OF NAPHTHALENE | EN ISO 15105-2 | mg/m ² /day | <0.0006 |
| TRANSMISSION RATE OF CIS-1,2-DICHLOROETHYLENE | EN ISO 15105-2 | mg/m ² /day | <1.1 |
| GAS PERMEABILITY | | | |
| METHANE PERMEABILITY | EN ISO 15105-1 | ml/m ² /day/atm | 0.13 |
| METHANE PERMEABILITY (JOINTED) | 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 |
| VINYL CHLORIDE GAS PERMEABILITY | EN ISO 15105-1 | ml/m ² /day/atm | 0.04 |
| RADON PERMEABILITY | K124/02/195 | m ² /S | 1.0 X 10 ⁻¹² |
| DURABILITY AND CHEMICAL RESISTANCE | | | |
| Chemical Resistance - SULFURIC ACID (10% Solution of Sulfuric Acid (H ₂ SO 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 Hd30 (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 -NAPHTHALENE- 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 |

FOR THE NEEDS OF TODAY AND THE DEMANDS OF TOMORROW.