



# GP® SAM

GP® SAM, gas protection self adhesive membrane, is a bituminous gas proof and water proof sheet, composed of self-adhesive SBS polymer modified bitumen incorporating GP® 1 with an upper surface finish of black reinforced LDPE, and a lower surface finish of siliconized release film. GP® SAM is used for the gas/waterproofing of underground structures where harmful ground gasses are anticipated, and as a self adhesive accessory to GP® 1.

|           |                       |
|-----------|-----------------------|
| Thickness | 1.2 mm                |
| Width     | 0.9 m or 0.3 m        |
| Length    | 20 m                  |
| Weight    | 1100 g/m <sup>2</sup> |

## 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.

### Handling

Roll weights can be in excess of 20 kg (approx 33 kg/roll) and hence appropriate care and equipment is required for unloading and handling. This product is non-toxic nor flammable.

### Storage

Rolls of GP® SAM should be stored on in a cool, dry place, and be protected from exposure to rain, sun, heat and cold temperatures prior to installation. Exposure to sunlight for extended period of time could cause difficulty with removal of the release film.





| Feature                             | Characteristics                                              | Test Method    | GP® SAM                      |
|-------------------------------------|--------------------------------------------------------------|----------------|------------------------------|
| <b>Physical Properties</b>          | Thickness                                                    | EN 1849-2      | 1.2 mm                       |
|                                     | Width                                                        | EN 1849-2      | 0.9 or 0.3 m                 |
|                                     | Length                                                       | EN 1849-2      | 20 m                         |
|                                     | Weight                                                       | EN 1849-2      | 1100 g/m²                    |
| <b>Hydraulic Press</b>              | Water Tightness                                              | EN 1928        | Pass                         |
|                                     | Water Vapour Transmission                                    | EN 1931        | 0.013 g/m²/day               |
| <b>Mechanical Properties</b>        | Tensile Strength (MD/CMD)                                    | EN 12311-2 (A) | 500 N/50mm                   |
|                                     | Elongation (MD/CMD)                                          | EN 12311-2 (A) | > 12 %                       |
|                                     | Resistance to Static Load                                    | EN 12370       | 20 kg                        |
|                                     | Joint Strength                                               | EN 12317-2     | > 30 N                       |
|                                     | Durability and Water Tightness (Ageing and Chemicals) 60 kPa | EN 1847        | Pass                         |
|                                     | Resistance to Nail Tear (MD/CMD)                             | EN 12310-1     | > 300 N                      |
|                                     | Resistance to Fire                                           | EN 13501       | F Euro Class                 |
| <b>Gas Permeability</b>             | Methane Permeability                                         | EN ISO 15105-1 | < 0.68 ml/m²/day/atm         |
|                                     | Carbon Dioxide Permeability                                  | EN ISO 15105-1 | < 2.81 ml/m²/day/atm         |
|                                     | Radon Permeability                                           | K124/02/95     | 8.0 x 10 <sup>-15</sup> m²/S |
| <b>Compliance and Certification</b> | CE Mark - EN13967:2012 + A1:2017 Type (A/T)                  |                |                              |
|                                     | BS 8485:2015 Compliant (Methane and Carbon Dioxide Barrier)  |                |                              |

## JUTA UK

Please contact JUTA UK Directly for more information on GP® SAM

## Installation

GP® SAM should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015, and/or BS 8102:2009.

It is recommended that GP® SAM is not applied in temperatures below 10°C, in colder weather the material can be warmed slightly to aid adhesion.

## Accessory Products

- GP® Primer
- GP® Protection Board
- GP® Protection Fleece