

TECHNICAL DATASHEET

GS PE 1.2 PSA SD

SAND COATED HDPE MEMBRANE

GreenShield™ PE PSA SD is a unique, high performance, flexible High-Density Polyethylene (HDPE) sheet with pre-applied pressure sensitive adhesive and a reactive inorganic fine granule layer on it, manufactured and supplied in thickness of 1.2 mm, designed for waterproofing basements and podiums of new buildings. The membrane is designed for adhesion to RCC for easy application below rafts and reinforcements.

Based on advanced polymer chemistry, the membrane has excellent resistance to chemical acids, bases, alkalis, salts and other corrosive materials, while providing a barrier to water seepage from below ground. The sheet remains flexible over years, maintaining its integrity and continuing to provide protection.

High mechanical properties of the membrane ensure superior puncture resistance, breaking and tearing strength, while enabling excellent heat weld for fusion along the edges.



Features & Benefits

- Supplied in pre-manufactured standard thickness. No need to worry of thickness variation at site, unlike liquid applied systems
- Outstanding puncture resistance, high breaking and tearing strength, with very high peel strength of seam joints and heat welds
- Chlorine free, plasticizer free, phthalate free. Environmentally friendly and safe for humans
- Exceptional resistance to heat, UV, Ozone, bacteria, chemical, acid corrosion
- Resistance to root penetration, suitable for green roofs
- Continuous serviceability from -30°C to 100°C - without cracking, tearing or brittleness failure

Application Areas

- Basement Waterproofing
 - Below Raft
 - Side Walls
- RCC Podiums
- Car Parks
- Roads & Bridges
- Canals, Subways, Tunnels & Underpass
- Underground Metro Stations

Packing, Storage & Coverage

| | | | |
|-----------------|---|-----|-----|
| ROLL DETAILS | Thickness (mm) | 1.2 | 1.2 |
| | Width (mtr) | 1.2 | 1.5 |
| | Length (mtr) | 20 | 20 |
| | Sq.mts (mtr ²) | 24 | 30 |
| | Weight (kgs) | 41 | 51 |
| STORAGE | Store membranes in dry and clean conditions and in their original, closed wrapping away from sources of chemical contamination, damage, ignition sources and open flame. Shelf life is beyond 5 years. Exercise caution when lifting, moving, transporting, storage and handling to avoid puncture and physical damage. | | |
| COVERAGE | The dimensions of the membrane are calculated to cover the substrate, including seam overlaps. Standard Seams: 75 mm Seams with mechanical anchoring: 150 mm Upstands: additional length of 150 mm 100mm overlap area provided on one side | | |
| WINDING | The rolls are winded with HDPE membrane outside and sand layer inside. | | |



GreenShield

Heatshielding & Waterproofing Your Roof

PRODUCT OF ZYLOG ELASTOCOMP
Zylog House | Lane 4
Kalyaninagar | Pune 411006
+91 77588 65314 | sales@greenshield.co.in

| PROPERTY | GS PE 1.2 PSA SD |
|---|------------------------|
| Nominal Thickness mm; ASTM D751 | 1.2 + 20% |
| HDPE Sheet Thickness mm; ASTM D751 | 0.90 ± 10% |
| Typical Weight Kg/m ² | 1.65 ± 10% |
| Tensile Strength Kg/cm ² ; MD & TD Average; ASTM D 412 | 250 Min 270 Typical |
| Elongation at Break %; MD & TD Average; ASTM D 412 | 500 Min 570 Typical |
| Tearing Strength Kg/cm; MD & TD Average; ASTM D 412 | 130 |
| Puncture Resistance N; ASTM E154 | 1000 Min |
| Peel Adhesion to Concrete N/m; ASTM D903 | 1500 Min |
| Resistance to Hydrostatic Head m; ASTM D5385 | 71 |
| Brittleness Point °C; ASTM D 2137 | -30°C |
| Linear Dimensional Change %; 6hrs @ 70°C; ASTM D 1204 | 1% Max |
| Weather Resistance KJ/(m ² .mm); ASTM G155 | > 21,600 |
| Water Vapour Permeance Perms; ASTM E96, Procedure B | 0.10 Max |

Note & Disclaimer: For latest updates and additional info, please consult US. Testing results and/or copies of Approval Documents for above mentioned membranes are available on request.

The technical details, recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is user responsibility to ensure that product is used and handled correctly and in accordance with applicable standards and recommendations and only for the intended purpose. We reserve the right to update information without prior notice to reflect ongoing research and development program. Country specific recommendations, considering local standards, practice codes, building regulations and industry guidelines, may effect installation recommendations. The supply of our products and services is subject to terms, warranties and exclusions available to you on request.