

SOPRAGUARD GEO

EPDM GEOMEMBRANE FOR HYDRAULIC WORKS

USE

The SOPRAGUARD GEO is a vulcanized synthetic EPDM rubber geomembrane with a smooth finish, designed for waterproofing irrigation ponds, high-altitude reservoirs for artificial snow, large ornamental lakes, irrigation canals, tanks, forage covers, bio-purification systems, and other hydraulic construction applications.

The prefabrication of EPDM modules allows to cover large surfaces more quickly and safely, sometimes with a single piece, reducing the number of on-site joints and the need for accessories.

The cold installation system allows applications in remote environments to operate with no energy consumption and allows for quick and easy repairs.



APPLICATION

- The installation of SOPRAGUARD GEO geomembranes must be carried out by experienced personnel.
- SOPRAGUARD GEO geomembranes are placed on a compacted ground covered with a mechanical protection geotextile.
- The membrane should rest for approximately 30 minutes before performing the joints and securing it permanently.
- For the joint between membranes, ensure that the minimum overlap of 10 cm is clean and dry. Make a mark 1.5 cm outside the edge of the overlap.
- Apply Sopranguard Primer on both sides of the membrane and wait for the tacking point; check by pressing with your fingertip to ensure no strings form when lifting it.
- Apply the Sopranguard Tape self-adhesive strip following the marks. Press firmly with the system hand roller. Close the overlap, ensuring that the Sopranguard Tape strip extends between 5 and 15 mm beyond the overlap. Remove the protective film and roll over the entire joint again with the pressure roller.
- When necessary, SOPRAGUARD GEO geomembrane can be covered with a mechanical geocomposite protection as GEOLAND TTX.

DESCRIPTION

- SOPRAGUARD GEO is a vulcanized EPDM rubber geomembrane with a smooth finish.
- It is black color with no additional talc on its surface.
- It is elastic and flexible from -45 to +130°C, resistant to ozone and UV radiation.
- The wide panels are assembled in the factory by double track hot welding
- SOPREMA prides itself in working with the highest quality products. We operate with quality and environmental assurance systems and are certified ISO 9001 and ISO 14001.

SOPREMA reserves the right to modify the stated data without prior notice and disclaims any liability in case of anomalies caused by improper use of the product.

The values reflected in the technical data sheet correspond to the average values of the tests conducted in our laboratory.

SOPREMA IBERIA SLU c/ Ferro 7, Pol. Ind. Can Pelegrí 08755 Castellbisbal – Barcelona (+34) 93 635 14 00.

- ✔ Anti-root resistance
 ✔ High elasticity and flexibility
 ✔ Cold installation

CHARACTERISTICS

| ESSENTIAL CHARACTERISTICS | Standard | 0.8 | 1.0 | 1.1 | 1.2 | 1.5 | 2.0 | EN 13361 :2004+A1 :2006 EN 13362:2005 | |
|--|--------------|--------------------|--------------------|-------|-------|-------|-------|--|--|
| Tensile strength (N/mm ²) | EN ISO 527-3 | ≥ 10 (L/T) | | | | | | | |
| Resistance to static puncture (kN) | EN 12236 | ≥ 0.6 | ≥ 0.7 | ≥ 0.8 | ≥ 0.9 | ≥ 1 | ≥ 1.4 | | |
| Water permeability (m ³ m ⁻² d ⁻¹) | EN 14150 | < 10 ⁻⁵ | < 10 ⁻⁶ | | | | | | |
| Durability: - Weathering 350 h (var % of tensile properties) - Oxidation 90 days at 85°C (variation % of tensile properties) | EN 12224 | ≤25 | ≤25 | ≤25 | ≤25 | ≤25 | ≤25 | | |
| | EN 14575 | ≤25 | ≤25 | ≤25 | ≤25 | ≤25 | ≤25 | | |
| Dangerous substances | | Complies | | | | | | | |
| OTHER CHARACTERISTICS | Standard | 0.8 | 1.0 | 1.1 | 1.2 | 1.5 | 2.0 | | |
| Mass per unit area (-5%/+10%) (kg/m ²) | EN 1849-2 | 0.95 | 1.2 | 1.3 | 1.4 | 1.8 | 2.4 | | |
| Static puncture Displacement (mm) | EN 12236 | ≥ 130 | ≥ 130 | ≥ 150 | ≥ 150 | ≥ 130 | ≥ 140 | | |
| Elongation (%) | EN ISO 527/3 | ≥ 400 (L/T) | | | | | | | |
| Dimensional stability (%) | EN 1107-2 | ≤ 0.5 | | | | | | | |

PACKAGING

| | | |
|------------|---|--------------------------------|
| Dimensions | Width | 3 / 4.5 / 7.5 / 9 / 12 or 15 m |
| | Length | |
| Storage | Keep protected against mechanical aggressions. Store away from sources of ignition and flames. | |

MARKING

Unique identification code of the product-type: WPSES0020.
 SOPRAGUARD GEO membranes are produced in SOPREMA factory in Subirats (Spain) and are CE marked 2286-CPR-124/22 in accordance with EN 13361 and EN 13362.

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