

# **TECHNICAL DATA SHEET**

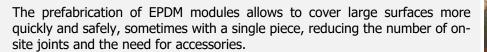
TDS WPSES0020.a

# 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 cold installation system allows applications in remote environments to operate with no energy consumption and allows for guick 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 Sopraguard 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 Sopraguard Tape self-adhesive strip following the marks. Press firmly with the system hand roller. Close the overlap, ensuring that the Sopraguard 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.

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✓ 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	"
Tensile strength (N/mm²)	EN ISO 527-3	≥ 10 (L/T)				2006		
Resistance to static puncture (kN)	EN 12236	≥ 0.6	≥ 0.7	≥ 0.8	≥ 0.9	≥ 1	≥ 1.4	+A1 :
Water permeability (m <sup>3</sup> m <sup>-2</sup> d <sup>-1</sup> )	EN 14150	< 10 <sup>-5</sup>	< 10 <sup>-6</sup>			2004-		
Durability: - Weathering 350 h (var % of tensile properties) - Oxidation 90 days at 85°C (variation % of tensile properties)	EN 12224 EN 14575	≤25 ≤25	≤25 ≤25	≤25 ≤25	≤25 ≤25	≤25 ≤25	≤25 ≤25	EN 13361 :2 EN 133
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/m²)	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	

≥ 400 (L/T)

≤ 0.5

## **PACKAGING**

Elongation (%)

Dimensional stability (%)

Dimensions	Width	3 / 4.5 / 7.5 / 9 / 12 or 15 m			
	Length	30 m			
Storage		Keep protected against mechanical aggressions.			
		Store away from sources of ignition and flames.			

**EN ISO 527/3** 

EN 1107-2

# **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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