

## PRODUCT DATA SHEET

### DESCRIPTION

TECSOUND® SY GEO is a polymer based, bitumen-free, synthetic and high-density soundproofing membrane. The combination of its viscoelasticity and its high-density offers good sound-insulation in different construction elements without increasing thickness.

Upper face is covered with a polyester non-woven veil that allows the adhesion of foams, fibers or panels of different materials (wood, metal, plastic, etc.) while the lower face has self-adhesive layer allowing its direct application on most building surfaces.

### STORAGE & HANDLING

TECSOUND® SY GEO should be stored in a dry, properly shaded and well ventilated storage space.

### USER APPLICATION

TECSOUND® SY GEO is used in various applications. All the application guidelines are described in SOPREMA's Technical Manuals in force.

#### ADVANTAGES

- High sound-insulation combined with lightweight materials such as foams, fibrous materials and rigid panels.
- High sound damping capacity on metal surfaces, thus improve insulation to rainfall noise on metal decks.
- Reaction-to fire classified.
- Flexible and adaptable to uneven surfaces.
- Good behavior at low temperatures, without breaking or cracking.
- Easy to handle and cut with a knife or scissors.
- May act as a vapor control layer.
- Negligible water absorption.
- Ageing resistance.
- Rot proof.



### HEALTH, SAFETY & ENVIRONMENT

The product does not contain any substance likely to be detrimental to health or to the environment and complies with generally admitted Health & Safety Requirements. For further information please refer to relevant Material Safety Data Sheet (MSDS).

### TRACEABILITY

Product traceability is ensured through a manufacturing identification present on the packaging.

### QUALITY MANAGEMENT

SOPREMA always recognises as a high level of importance the quality of the products, the environment and safety. For this reason, we operate independently monitored Quality Management Systems in line with ISO 9001:2015.

## COMPOSITION & PACKAGING

PROPERTY	TECSOUND® SY GEO 70	TECSOUND® SY GEO 70
Weight	7 kg / m <sup>2</sup>	7 kg / m <sup>2</sup>
Thickness	3.5 mm	3.5 mm
Length	2.6 m	5.05 m
Width	1.22 m	1.22 m
Roll / pallet	36	24
Storage	Product supplied in rolls(*) with carton core inside and individual protection cover. Store the rolls horizontally, inside its original packaging, on a pallet protected against moisture, sunlight and heat at a temperature ≤ +35 °C. Do not stack the pallets on top of each other. The rolls have a shelf life of 1 year. In cold periods, installation can be facilitated by leaving the product at +2 °C at least during a minimum of 5h before use.	

## TECHNICAL PROPERTIES

PROPERTY	STANDARD	TECSOUND® SY GEO
Density	-	2.010 kg / m <sup>3</sup>
Tensile strength	NT - 67	> 30 N / 50mm
Elongation	NT - 67	> 500 %
Pliability	EN 1109	- 25 °C
Application temperature <sup>(1)</sup>	-	5 up to 35 °C
Static service temperature	-	-10 up to 70 °C
Resistance to tearing (nail shank)	EN 12310-1	153 - 235 <sup>(2)</sup>
Fire classification	UNE-EN 13501-1	B-s2,d0 <sup>(3)</sup>
Vapour water resistant factor	UNE - EN 1931 met B	μ ≥ 1806
Water absorption (24h a 23°C)	ISO 62 met 1	0.003 %
TVOC after 28 days	EN 16516	≤ 60 μg / m <sup>3</sup>
Indoor Air Comfort Gold limit values	-	PASS
Shore hardness A	NT 74	30 ± 10
Young module (E)	-	1.35637 x 1.1744 MPa
Poisson coefficient	-	0.23

Note: All products manufactured by SOPREMA comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

Data is represented by average values, unless noted otherwise.

(1) Ranges of temperatures during installation

## ACOUSTIC DATA APPLIED PRODUCT

FREQUENCY	R with TECSOUND® (*)	R without TECSOUND®
125	27.9 dB	16.9 dB
250	39.2 dB	31.9 dB
500	49.5 dB	42.0 dB
1000	60.0 dB	50.7 dB
2000	65.1 dB	54.5 dB
4000	58.1 dB	41.2 dB
R <sub>w</sub> (acoustic reduction index)	49 dB	40 dB
Testing according to EN ISO 717-1		

See our Solutions Manual or contact our Technical Department to know about other systems

(\*) With all lining system including TECSOUND SY 70 GEO

## TESTING AND CERTIFICATIONS



## SUSTAINABILITY AND ENVIRONMENT



**SOPREMA FOR MANUFACTURING WATERPROOFING MATERIALS L.L.C.**  
 Mussafah Industrial Zone, ICAD 1  
 Abu Dhabi, United Arab Emirates,  
 P.O Box 39196  
 TEL: +971 2550 3383  
 FAX: +971 2550 3382  
 www.soprema.ae  
 info@soprema.ae