



## TECSOUND®

TECSOUND® is a high density polymer-based, asphalt-free, synthetic soundproofing membrane, that offers good acoustic insulation in different building elements. It is equipped with a tissue non-tissue polypropylene fleece on its upper side to improve the tear strength of the membrane and at the same time offer a protection or a finishing.

### PROPERTIES

- High acoustic insulation, combined with soft, flexible elements.
- High sound damping capacity on metal surfaces.
- Flexible.
- Easy to handle and adaptable to uneven surfaces.
- Easy to cut with a knife or scissors
- Good bonding to most of the types of surfaces.
- Acts as a vapour control layer
- Cold- and heat-resistance.
- Excellent ageing resistance.
- Rotproof.

### USES

- Soundproofing against airborne noise in ceilings and lightweight roofs.
- Reduction of impact noise level in all types of floors, sandwiched between floor slabs and loose-laid flooring.
- Damping of impact noise caused by atmospheric agents on metal decks.
- Soundproofing of air conditioning ducts and pipes.
- Combined with sound-absorbent materials, it offers products with high acoustic performance.
- Its applications in the industrial field cover from the soundproofing of booths to the acoustic insulation of machine-rooms, gutter pipes, sound-damping of metal sheets, etc.

For further information see examples in systems sheets.

### TECHNICAL DATA

| Test                               | Value                                |
|------------------------------------|--------------------------------------|
| Density                            | 2.0 g/cm <sup>3</sup> ± 0.05         |
| Pliability (UEAtc)                 | Does not break with bending at -20°C |
| Tensile strength (UNE 104-281/6.6) | ≥ 150 x150 N/50 mm.                  |
| Elongation (UNE 104-281/6.6)       | ≥ 200 x 200 %                        |
| Compressive strength               | 4.84 Kg/cm <sup>2</sup>              |
| Weight of polypropylene fleece     | 70 g/m <sup>2</sup>                  |
| Soundproofing properties           | See systems sheet                    |

### INSTRUCTIONS FOR USE

Substrate: TECSOUND® lends itself to all types of normal building substrates (renderings, gypsum board, metal, DM, plastic materials). The substrate must be even, smooth, clean and dry. It must also be free from elements that could damage the membrane. If the rendering is old, its condition must be checked to avoid adherence problems of the TECSOUND sheet to the rendering.



Installation of the membrane: prior to installing the membrane, an adhesive must be applied to both substrate and membrane, and left to dry according to the instructions of the adhesive manufacturer before bonding the two surfaces. Pressure must be exerted on all the points to ensure correct adherence.

It could be installed mechanically fastened. The number of fixings will depend on the product, the support and the system where the membrane will be applied.

Installation of the membrane on metal decks: Extend the roll over the substrate progressively, trying to keep the fleece remained on the upper side so it protects the membrane. The membrane must be applied in such a way that the length of the roll is perpendicular to the direction of the deck profile. The membrane must be made to follow the profile of the metal support at all times, ensuring that there is no formation of air pockets. The thermal insulation boards are then installed, mechanically fastened.

Laps: Overlap 5 cm both vertically and horizontally. Care must be taken to always seal the laps correctly, as small openings can reduce the level of acoustic insulation required.

Yield: 1 m<sup>2</sup> of membrane covers approximately 0.90 m<sup>2</sup> of surface area, including overlaps.

#### PACKAGING AND STORAGE

| Tipo                      | Kg/m <sup>2</sup> | Thickness (mm.) | Packaging                                       | Rolls per pallet   |
|---------------------------|-------------------|-----------------|---|--|
| Tecsound <sup>®</sup> 35  | 3,5               | 1,75            | 8 m. x 1,22 m rolls                             | 24 rolls (234,24 m <sup>2</sup> )                                  |
| Tecsound <sup>®</sup> 50  | 5                 | 2,5             | 6 m. x 1,22 m rolls                             | 24 rolls (175,68 m <sup>2</sup> )                                  |
| Tecsound <sup>®</sup> 70  | 7                 | 3,5             | 5 m. x 1,22 m rolls                             | 24 rolls (146,4 m <sup>2</sup> )                                   |
| Tecsound <sup>®</sup> 100 | 10                | 5               | 4 m. x 1,20 m rolls<br>1 m. x 1,20 m. sheet (*) | 21 rolls (100,8 m <sup>2</sup> )<br>75 sheets (90 m <sup>2</sup> ) |

(\*) Please note Tecsound<sup>®</sup> 100 in sheet form comes with a silicone plastic instead of the fleece

The product must be stored in dry premises, protected against weathering, and must not be exposed to temperatures exceeding 35°C for long time. Maximum recommended storage time is one year.