

## THERMAL AND ACOUSTIC INSULATION

### DESCRIPTION

**Tecfill®** is a volcanic rock wool particularly suitable for insufflating mechanically.

### APPLICATIONS

Thermal and acoustic insulation of the air chambers in the double walls, offering a wide range of application possibilities in the construction and industry sector.

Thanks to its low thermal conductivity, with **Tecfill®** we achieve a thermal efficiency in the building envelope that makes the product economically advantageous.

Among the applications, we can highlight the fitness for application on the double walls such as:

- Ceramic brick.
- Concrete blocks.
- Masonry.
- Flexible partitions.
- Metallic boards (sandwich type).

### INSTALLATION

Easy and quick installation.

**Tecfill®** application is easy and quick. The desired insulation is achieved in very little time, cleanly and without major works.

A qualified operator, accredited by **mercortecresa®**, will perform the installation following the steps below:

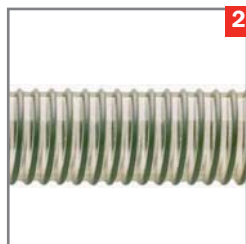
- 1** Check the state of the cavity, verifying the optimal conditions for application.
- 2** Redrawing of the holes which will be made on the support work, ensuring an optimal distribution of the material in the cavity.
- 3** Insufflating of the material. **Tecfill®** is dry insufflated, avoiding waste of material, stains, dripping, etc.



Once the cavity is filled in with **Tecfill®**, the operator will seal the holes made on the support work through the most suitable sealer (cement, plaster, mastic, etc)

### APPLICATION EQUIPMENT

- 1** Machine.
- 2** Hose.
- 3** Nozzle.
- 4** Insufflation nozzle.



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### FEATURES AND TECHNICAL SPECIFICATION

FEATURES	VALUE	
Nominal density	80 Kg/m <sup>3</sup> ± 10%	
Thermal conductivity	0,038 W/m.K	
Fire reaction	A1	
Melting point	≥ 1350°C	
Biological behaviour	Not affected by microorganisms. Rotproof. Chemically neutral..	
Thermal resistance	Thickness (mm)	R (m <sup>2</sup> K/W)
	30	0,79
	40	1,05
	50	1,31
	60	1,57
	70	1,84
	80	2,1
	90	2,36
	100	2,63
	110	2,89
	120	3,15
	130	3,42
	140	3,68
	150	3,94
	160	4,21
170	4,47	
180	4,73	
190	5	
200	5,26	

### ADVANTAGES

- Efficient thermal and acoustic insulation for non insulated buildings. No need of civil work.
- Easy and quick installation.
- Energy and economic savings.
- Fire-resistant product. Product indicated for Passive Fire Protection.
- Light. Density of 80 Kg/m<sup>3</sup> ± 10%.
- Non-toxic, environmentally friendly.

### ACOUSTIC INSULATION

**Tecfill®**, thanks to its structural morphology offers a significant improvement in the of acoustic insulation.

### PRESENTATION

**Tecfill®**, is presented in 100 liters bags (approx. 15 Kg ± 10%). The bags must be stored indoors and on its original pallet.

### HEALTH AND SAFETY

The following considerations must be taken into account when handling **Tecfill®**:

- Wearing protective gloves to protect the hands is recommended.
- Wearing tight goggles to protect the eyes is recommended.
- Respect the regular work measures.

Consult the safety datasheet for further information.

We guarantee that the quality of our materials conforms to the indicated technical specifications, while it remains the consumer's own responsibility to determine how suitable the product is for the intended use. You must perform tests and ensure the effectiveness of the product for its application. **mercortecresa®** does not guarantee, explicitly or implicitly, the compatibility of a product for any particular application. We cannot be held responsible for any damage or accident resulting from the use of our products