

# THERMOBOND

BINDER-ADHESIVE FOR SMOOTHING AND BONDING  
EXTERNAL WALL INSULATION



GRANTS *LEED* CREDITS

CHARACTERISTICS		ENVIRONMENTAL		METHOD OF USE		PRECAUTIONS

## PROBLEM

### BONDING AND SKIMMING EXTERIOR WALL INSULATION PANELS



## SOLUTION

Insulating panels used for the external wall insulation of residential buildings require a strong reliable bond which will hold them fast over time.

**THERMOBOND** is a smoothing adhesive based on resins in aqueous dispersion, which are compatible with cement and plaster, selected quartz sands and suitable additives to improve the workability of the product

## APPLICATION FIELDS

**THERMOBOND** is a product used in external wall insulation systems with excellent adhesion to different surfaces, such as: concrete, cement-based mortar, wood, brick etc.

It can also be applied as a finish with a paint-brush onto polystyrene profiles.

**THERMOBOND** is also used for bonding mineral fibre panels onto wooden supports.

## ADVANTAGES

- **THERMOBOND** effectively bonds all of the many types of insulating panels on the market.
- It provides an excellent protection for the façade from driving rain and aggressive atmospheric agents.
- It guarantees easy and reliable installation.
- It solves the problems of bonding and smoothing insulating panels with a single product.

## METHOD OF USE

When applying over old powdery plaster, it is always a good rule to apply a consolidating coat of PRIMER FIX first.

### • PREPARAZIONE DELL'IMPASTO

**THERMOBOND** Mix **THERMOBOND** inside the tin with an electrical mixer on low speed for the amount of time needed to obtain a uniform product (1).

Mix the contents of the tin with Portland 325 cement and hydraulic lime until the desired consistency, taking care to ensure that any

lumps of undissolved cement have been mixed in. Only use recently produced cement, hydraulic lime.

### • APPLICATION

prepared as above is used to bond mineral wool and natural fibre, expanded and extruded polystyrene and polyurethane panels, etc. Then place and gently press the panels against the wall (3).

Always install starting from the bottom and progressing uniformly in layers upwards.

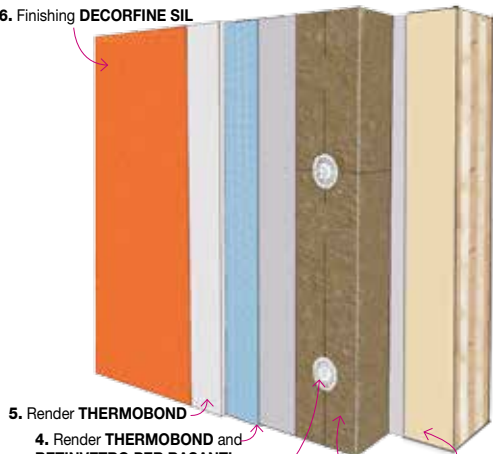
In applications on glued laminated timber (glulam) and fibrous panels, use **THERMOBOND** as supplied. It can also be used as a smoothing layer on the surface of insulating panels, always applying fibreglass reinforcement **RETINVETRO FOR SMOOTHING RENDERS (4)** on the smoothing mortar.

The panels should be fixed further using plastic flat-head mushroom nails.

### • COVERAGE

2 - 5 kg/m<sup>2</sup>.

6. Finishing **DECORFINE SIL**



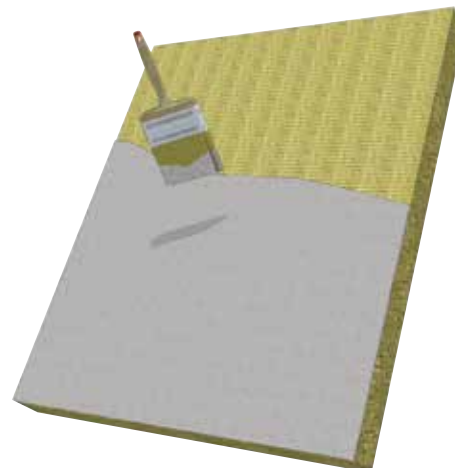
5. Render **THERMOBOND**

4. Render **THERMOBOND** and **RETINVETRO PER RASANTI**

3. Mechanical fixing

2. Heat-insulation panel **THERMOSILENTRock** bonding with **THERMOBOND**

1. Wall made of X-LAM



(See following)

**index**  
Construction Systems and Products



## TECHNICAL CHARACTERISTICS

	Standard	<b>THERMOBOND</b>
Appearance		Creamy paste
Colour		white
Density	<b>EN 2811-1</b>	1.50 ± 0.10 kg/L
Dry residue		61.5%
Storage in original packaging in a dry place (away from frost)		12 months
<b>Workability properties</b>		
Workable mix duration (*)		approx 1 ÷ 2 hours
Waiting time - for total dry		approx 5 ÷ 6 hours
Application temperature		+5°C ÷ +35°C
Minimum application thickness		0.5 mm
Maximum application thickness		2.0 mm
Application		Manual
<b>Performance characteristics - mixed with ptl325</b>		
	<b>Standard</b>	<b>Product performance</b>
Compression strength - after 28 days	<b>EN 12190</b>	≥10 MPa
Bending strength - after 28 days	<b>EN 196-1</b>	≥3 MPa
Chloride ion content	<b>EN 1015-17</b>	Absent
Bond strength	<b>EN 1542</b>	≥0.8 MPa
Thermal compatibility with frost-thaw cycles - Part 1	<b>EN 13687-1</b>	≥0.8 MPa
Absorption of water by capillarity	<b>EN 13057</b>	$w \leq 0.5 \text{ kg/m}^2 \cdot \text{h}^{0.5} - W1$
Permeability to water vapour	<b>EN 1015-19</b>	$\mu = 60$
Thermal resistance - Operating temperature		-30°C ÷ +90°C

Test conditions: temperature 23±2°C, R.H. 50±5% and air speed in test area <0.2 m/s. **The data shown may vary depending on the specific work site conditions: temperature, humidity, ventilation, absorbency of the base coat.**

(\*) The times indicated will be longer or shorter as the temperature drops or rises.

(See previous)

### • PRECAUTIONS

- Avoid preparing the mix manually.
- Application temperature from +5°C to +35°C.
- In hot weather, keep damping the finished mortar surface for at least 24 hours to stop it from drying out too quickly.
- Only use panels without a "skin" (surface film).
- For that purpose, please consult the chapter entitled "EXTERNAL WALL THERMAL INSULATION SYSTEM AND THERMAL INSULATING PLASTER".
- The workability time is reduced in hot weather due to the fast filming of the resin.
- Straight after application clean the tools with water and the coated surfaces with a damp cloth.
- Do not expose the material to the sun in hot weather.

- Not frost-proof, store in original closed packaging in a dry place. Protect against frost or high temperatures.

The numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

## PACKAGING

25-kg Pails.

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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