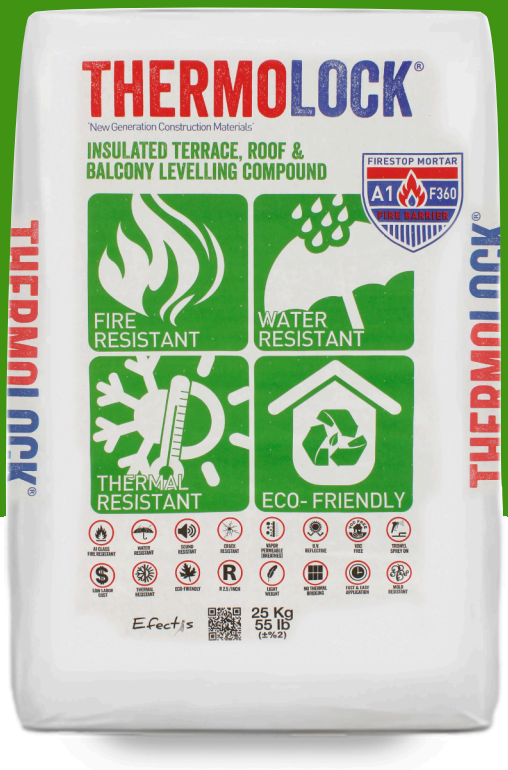
Insulated Terrace Levelling Compound

Fire Barrier F360 Class

Provides European standards
and F360 class fire resistance



Technical Data Sheet

THERMOLOCK
New Generation Construction Materials

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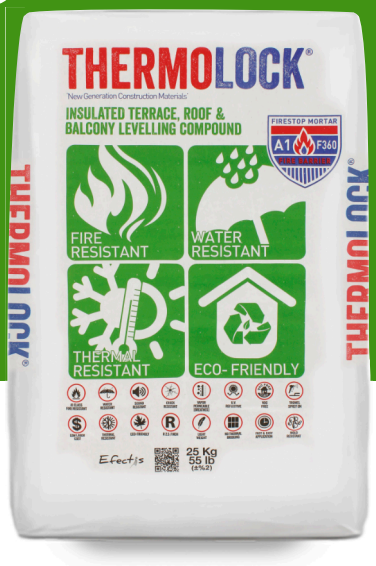
European standards
F360 class fire resistance



Fire resistance
≤ 360 minutes

Acoustic insulation
Rw 56 dB

Working life
≥ 50 years

Shelf life
16 months

Insulated Terrace Levelling Compound

THERMOLOCK Terrace, Roof, and Balcony Leveling Compound is a high- performance screed material offering thermal, water, and fire insulation. It is A1-class non-combustible, F360 fire-resistant, breathable, waterproof, lightweight, and highly resistant to pressure. It is also durable against heavy rain, sunlight, and temperature fluctuations, making it suitable for terraces, wet areas, attics, balconies, and open spaces.

Advantages

- Fire resistance ≤ 360 minutes
- CE-certified
- High thermal insulation
- High water insulation
- High compression strength
- Easy application
- Uv and weather resistant
- High acoustic insulation
- Suitable for most surfaces
- Lightweight structure

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Application

1. The substrate should be clean, free of dust, oil, and weak particles.
2. Mix 25 kg powder with approximately 16–17 liters of clean water using a low-speed mixer.
3. Mixing 6 minutes until a homogeneous mixture is obtained.
4. Allow the mixture to rest for 2-3 minutes for better water integration.
5. Apply manually with a trowel or by machine spraying.
6. Ensure a minimum thickness of 2 cm.
7. Ceramic, stone, granite coatings can be applied after 48 hours.
8. For multilayer applications, allow the first layer to dry before applying the next.
9. Heavy loads and high-traffic areas require an additional top coating.

Areas of Application

- Terraces, rooftops, balconies and wet floors
- Houses exposed to water and humidity
- Commercial buildings, hotels and skyscrapers
- Storage and industrial areas
- The inner surfaces of the bathrooms
- Spaces needing heat, water and fire production

Expansion Joints

- Every 25 m2, an expansion joint should be added to prevent cracking.
- For larger areas, additional regional expansion joints should be used.
- Expension joints should also be filled with Thermolock terrace compound.

Applicable Surface Areas

- Concrete
- Brick
- Wood
- Metal

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Drying Characteristics and Moisture Content

Initial set: 4-5 hours

Walkable: after 48 hours (light duty use)

Moisture content: after 24 hours 6-8%

Complete drying: 72 hours under standard conditions (20 C / 50% RH)

Drying speed depends on ambient temperature and ventilation.

Avoid application below +5 C or above +40 C

Traffic Readiness

Light foot traffic: 48 hours

Heavy loads or coatings: 72 hours

Primer Application

Primer use is required for surfaces other than concrete.
The product to be used as primer is Thermolock Adhesion Enhancing Transition Primer.
Please refer to the product's technical data sheet or product documentation for its use.

Sound Insulation Performance

- Impact sound reduction (ΔLw): 25 dB (2.5 cm thickness)
- Contribution to airborne sound insulation: +4 to +6 dB
- Effective frequency absorption: 100 Hz – 5,000 Hz
- Particularly effective in the 250–1,000 Hz range (speech frequencies)
- Airborne sound improvement: 2–4 dB depending on the floor system
- Effective frequency range: 125 Hz to 4000 Hz
- Sound test procedures compliant with ISO 10140 to be planned. .

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Technical Specifications

Property	Value
Color	White
Binder	Special cementitious formulation
Density (Bulk)	450 ± 10% kg/m3
Thermal Conductivity (λ)	0.070 W/m·K (±10%)
Fire Classification	A1 Non-Combustible (EN 13501-1)
Fire Resistance	F360 (360 minutes) (1000 oC)
Sound Insulation	Up to 56 dB depending on system
Water Vapor Permeability	High (breathable)
Water Resistance	0,312 (kg/m2 min 0,5) W1
Compressive Strength	CS III (≥ 3.5 N/mm2)
Adhesion Strength	≥ 0.3 N/mm2
Workability Time	120 minutes
Drying Time	24-48 hours depending on layer thickness
Mixing Water Requirement	16–17 L per 25 kg bag
Application Thicness	20–30 mm (per layer)
Consumption	6.0–6.3 kg/m2 for 10 mm layer
Shelf Life	16 months in dry conditions
Application Temperature Range	+5 C° - + 40C°
Application Type	Machine or Steel trower
Packaging Type	25 kg

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Storage

- Store in a dry, closed place on pallets.
- Do not stack more than 10 bags.
- When stored this way, it has a shelf life of 16 months.

Safety

Avoid contact with skin and eyes

Wear protective gloves and goggles during application.

Non-flammable and non-toxic. Classified as a non-hazardous cement-based material.

For detailed health information, please refer to the MSDS document.

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