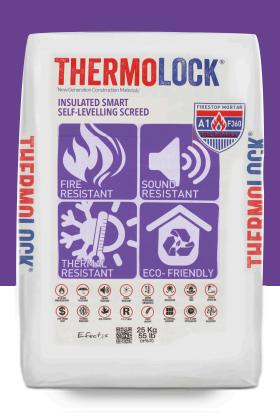
Fire Barrier F360 Class

Provides European standards and F360 class fire resistance



Technical Data Sheet



Fire Barrier F360 Class

European standards F360 class fire resistance











Insulated Smart Self-Levelling Screed

THERMOLOCK Insulated Smart Screed (CS4) is a high-performance floor screed that provides thermal, acoustic, and fire insulation. With a dry density of 800-1000 kg/m³, it is specially designed for applications requiring high mechanical strength. It adheres directly to concrete surfaces without the need for primer or adhesive, ensuring easy application and long-term durability.

Unlike conventional screeds, it provides high sound insulation, allowing both floor leveling and sound insulation to be achieved with a single product between floors.

Advantages

- Fire resistance ≤ 360 minutes
- CE-certified
- High thermal insulation

- Easy application
- High compression strength
- High acoustic insulation



Fire Barrier F360 Clas

European standards F360 class fire resistance



Application

- 1. The substrate should be clean, free of dust, oil, and weak particles.
- 2. Mix 25 kg powder with approximately 13-14 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.

Areas of Application

Any surface where regular screed is used	Storage and industrial areas
Any surface where regular screed is used	Storage and industrial areas

- Any type of structure requiring insulation The inner surfaces of the houses
- Commercial buildings, hotels and skyscrapers Spaces needing heat and acoustic insulation

Sound Insulation Performance

- Impact sound reduction (ΔLw): 56 dB (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.





Fire Barrier F360 Class



Drying Characteristics and Moisture Content

Initial set: 7 hours

Walkable: after 24 hours (light duty use)

Moisture content: after 24 hours 15%

Complete drying: 72 hours under standard conditions (23 C / 50% RH)

Drying speed depends on ambient temperature and ventilation.

Avoid application below +5 C or above +35 C

Traffic Readiness

Light foot traffic: 24 hours

Heavy loads or coatings: 72 hours

Primer Usage and Bond Performance

Primer is not required for standard applications. However, if higher bond strength is desired, it can be increased through the use of a suitable primer. The table below shows a comparative overview:

Surface Type / Application	Bond Strength Without Primer	Bond Strength With Primer
Standard Concrete Surface	≥ 2.0 Mpa	≥ 2.5 Mpa
Rough/Absorbent Surface	≥ 1.8 Mpa	≥ 2.4 Mpa
Spec. Areas Req. High Adhesion	≥ 2.0 Mpa	≥ 3.0 Mpa



Fire Barrier F360 Class

European standards F360 class fire resistance



Technical Specifications

Property	Value
Color	Grey
Binder	Special cementitious formulation
Density (Bulk)	900 ± 10% kg/m3
Thermal Conductivity (λ)	1.0 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	0,250 (kg/m2 min 0,5) W1
Compressive Strength	CS IIII (≥ 4.0 N/mm2)
Adhesion Strength	≥ 2.0 N/mm2
Workability Time	120 minutes
Drying Time	24-48 hours depending on layer thickness
Mixing Water Requirement	13-14 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 ₀ . +35C ₀
Application Type	Machine or Steel trower
Packaging Type	25 kg



Fire Barrier F360 Class

European standards



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.



















