

FUERZA THERMOSEAL

ACRYLIC BASED SINGLE-COMPONENT WATERPROOF & THERMAL INSULATION COATING

FUERZA THERMOSEAL is a **high-performance elastomeric acrylic waterproofing and solar-reflective coating system** incorporating **high-reflectance white pigments and thermally insulating ceramic microspheres**. The formulation provides enhanced **solar reflectance and thermal insulation**, reflecting up to **90% of incident solar radiation** and reducing heat transfer through the coated substrate.

The cured membrane exhibits **long-term flexibility, weathering resistance, and durability**, making it particularly suitable for structures exposed to **severe climatic and thermal conditions**. **FUERZA THERMOSEAL** forms a **flexible, fire-resistant, weather-resistant protective coating** that can contribute to reduced building cooling demand and associated energy consumption, with potential cooling-energy savings of **up to 40%**, depending on substrate, climatic conditions, and building configuration.

PROPERTIES & PERFORMANCE CHARACTERISTICS

FUERZA THERMOSEAL is formulated from a **weather-resistant acrylic ester resin matrix, high-reflectance pigments, and thermally insulating ceramic microspheres**, providing the following performance characteristics:

- **Waterproofing and weather-resistant** protective coating.
- High **solar reflectance and thermal insulation** properties.
- Effective **ultraviolet (UV) radiation reflectance**, reducing surface degradation.
- **Breathable membrane** allowing moisture-vapour transmission while maintaining strong substrate adhesion.
- Forms a **continuous, seamless protective film** without joints or discontinuities.
- Excellent **elasticity and long-term flexibility**, accommodating minor substrate movement.
- **Rapid drying** characteristics for efficient application.
- Can contribute to **cooling-energy savings of up to 40%**, depending on climatic and building conditions.

TECHNICAL INFORMATION

Binder:	Acrylic
Filler:	Ceramic micro-spheres and precisely-graded fillers
Pigments:	Weather resistant pigments
Drying time:	6 hours between coats
Color:	White
Elongation:	300%
pH value:	8-8.5

AREAS OF APPLICATION

FUERZA THERMOSEAL is specifically formulated for **waterproofing and thermal-reflective protection of roof systems** constructed from a wide range of substrates, including **concrete, lightweight concrete, roof tiles, timber, galvanized steel, asphalt, and asbestos-cement sheets**. It is particularly suitable for **flat and low-slope roofing systems** exposed to intense solar radiation and demanding climatic conditions.

METHOD OF APPLICATION

Surface Preparation:

Remove all **dust, dirt, loose particles, salts, oil, grease, surface ridges, and other contaminants** by suitable mechanical means. Protect adjacent surfaces not intended for coating. Repair all **cracks, voids, surface defects, and damaged areas** using a compatible repair filler before application.

Priming:

For **porous or highly absorbent substrates**, apply **FUERZA E-BRANE penetrating primer** prior to FUERZA THERMOSEAL to improve substrate consolidation, penetration, and coating adhesion.

Application:

Apply FUERZA THERMOSEAL by **brush or spray** at an initial coverage rate of approximately **1.2–1.8 m²/kg**. Where additional reinforcement is required, embed **glass-fibre scrim** into the first coat while wet, ensuring complete impregnation and elimination of air pockets. Allow the first coat to dry adequately before applying the subsequent coat, achieving an overall consumption of approximately **1.0–1.2 m²/kg**.

Do not apply when **rain or precipitation is imminent**, as the coating must remain protected from water until fully dried. Clean all **tools and application equipment with clean water** immediately after use.

PACKAGING, STORAGE & SHELF LIFE

FUERZA THERMOSEAL is supplied in **20 kg pails**. Store the product in its **original, unopened containers** in a **clean, dry, and shaded area**, protected from direct sunlight and exposure to extreme heat or cold. Under recommended storage conditions, the product has a **shelf life of 12 months**.

HEALTH & SAFETY

Avoid **prolonged contact with skin and eyes** during handling and application. For detailed safety, handling, and precautionary information, refer to the relevant **Safety Data Sheet (SDS)**.



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