

FUERZA ACRI-SHIELD

SINGLE COMPONENT ACRYLIC BASED HIGHLY FLEXIBLE WATERPROOF COATING SYSTEM

FUERZA ACRI-SHIELD is a **single-component, highly flexible acrylic-based waterproofing coating system** that cures to form a continuous **elastomeric waterproofing membrane** with excellent substrate adhesion and low permeability. Its **breathable membrane structure** enables moisture-vapour transmission while providing effective protection against **acidic gases, chloride-ion ingress, and environmental degradation** of reinforced concrete.

The coating is suitable for both **new and existing concrete structures**, offering excellent **wear resistance, weathering resistance, and long-term flexibility**. Its seamless and resilient waterproofing characteristics make it suitable for **roofs, reservoirs, water tanks, and other exposed concrete elements**, while its decorative finish allows use where both **protective and aesthetic performance** are required.

APPLICATIONS & PERFORMANCE ADVANTAGES

- Suitable for waterproofing **roof slabs, terraces, balconies, sunshades, parapet walls, and other exposed concrete elements**.
- Particularly effective on structures with **complex geometries**, including domes, arches, shells, folded plates, paraboloids, and corrugated profiles.
- Applicable to both **horizontal and vertical substrates**, including new construction and existing concrete surfaces.
- Suitable for **positive- and negative-side waterproofing** applications where substrate access is restricted.
- Provides excellent **resistance to harsh climatic and environmental exposure**, including Middle Eastern conditions.
- Exhibits high **abrasion and wear resistance** for long-term service durability.
- Offers excellent **crack-bridging capability**, accommodating substrate movement and minor crack propagation.
- Develops strong **adhesion to concrete, masonry, and other compatible mineral substrates**, ensuring durable membrane continuity.

TECHNICAL INFORMATION

Supply form:	Liquid
Color:	Grey & white
Elongation:	300%
Pot life:	1 hour
Foot traffic:	After one day
Toxicity:	Non-toxic
pH value:	8-8.5

DIRECTIONS FOR USE

Surface Preparation:

The concrete substrate shall be **sound, clean, dry, and adequately profiled**, with all oil, grease, dirt, coatings, debris, laitance, and deteriorated concrete completely removed. Mechanical preparation by **shot blasting, sandblasting, or scarification** is recommended to achieve a suitable surface profile. Following preparation, remove all residual dust and contaminants using **industrial vacuuming or high-pressure water cleaning**. Acid etching should only be considered where mechanical preparation is impractical and should be performed by experienced personnel. Any reaction salts must be thoroughly removed by pressure washing. Prior to application, **pre-saturate the substrate with clean water** and eliminate all standing water.

Note: Acid-etched surfaces may provide inferior bond strength compared with mechanically prepared substrates.

Priming:

Apply the **FUERZA ACRI-SHIELD primer coat** by diluting **1 kg of material with 1 litre of clean water**. Apply uniformly using a **sprayer, brush, or roller**.

Application:

Apply the first coat of FUERZA ACRI-SHIELD over the primed substrate at a coverage rate of **1.0–1.5 kg/m²**. Allow the first coat to **fully cure and dry** before applying the subsequent coat. Where reinforcement is specified, embed the **glass-fibre reinforcement mesh** into the first coat while it is still suitable for embedding, ensuring complete contact and elimination of wrinkles or air pockets. Apply the second coat at **1.0–1.5 kg/m²**, ensuring complete and uniform encapsulation of the reinforcement.

Cleaning:

Clean all **tools and application equipment** immediately after use with **clean water**, preferably before the material has dried or cured.

PACKAGING, STORAGE & SHELF LIFE

FUERZA ACRI-SHIELD has a **minimum shelf life of 12 months** when stored in a **covered, cool, and dry environment**. The product is supplied in **20 kg and 110 kg plastic drums**.

