

FUERZA ACRI-FLEX

CEMENTITIOUS ACRYLIC BASED ELASTOMERIC WATERPROOF COATING SYSTEM

FUERZA ACRI-FLEX is a two-component, flexible, acrylic-modified, cementitious waterproofing system. Once cured, it forms an elastomeric waterproof membrane with superior adhesion and reduced permeability. The coating creates a breathable barrier with outstanding bond strength.

It effectively shields exposed reinforced concrete surfaces from damage caused by acidic gases and chloride ions. Designed for durability in harsh coastal and marine environments, **FUERZA ACRI-FLEX** is ideal for both new and existing concrete structures.

The coating offers excellent wear and weather resistance, making it suitable not only for waterproofing but also as a decorative finish. It's seamless, resilient, and flexible elastomeric membrane ensures long-lasting waterproof protection.

KEY FEATURES

- Suitable for waterproofing water-retaining structures.
- Withstands high positive and negative hydrostatic pressure.
- Provides excellent durability under hot and humid climatic conditions.
- Non-toxic formulation suitable for demanding applications.
- Suitable for both internal and external waterproofing.
- Provides high abrasion and wear resistance.
- User-friendly application, reducing labor requirements and installation costs.
- Exhibits high crack-bridging capability.
- Provides strong adhesion to concrete, masonry, metal, and other compatible substrates.

TECHNICAL INFORMATION

Supply form:	Powder & Liquid
Color:	Grey & White
Density:	1.8 gm/cm3
Elongation:	200%
Pot life:	1 hour
Foot traffic:	After 1 day
Toxicity:	Non-toxic
Tensile strength:	780 psi

Chloride ion Resistance	Coated	Uncoated
6 months	0.0004%	0.05%

DIRECTIONS FOR USE

Surface Preparation:

The concrete surface must be clean and roughened. Remove all traces of oil, dirt, loose materials, paint, and weak concrete. Mechanical methods such as sandblasting, shot blasting, or scarifying can be used to create a light surface profile. After cleaning, ensure all residues are completely removed using a vacuum cleaner or any suitable cleaning method. Acid etching may be used only when mechanical preparation is not feasible and should be carried out by contractors experienced in this technique. After etching, all reaction salts must be thoroughly rinsed off with high- pressure water. Before application, the surface should be saturated with clean water, ensuring that any excess standing water is removed.

NOTE: All concrete must possess an open surface texture with all curing compounds and sealers removed.

Mixing:

FUERZA ACRI-FLEX should be mixed using a slow-speed mixer. For larger applications, a paddle-type mortar mixer is recommended. First, pour the required amount of liquid according to the batch size, then gradually add the dry component. Mix thoroughly for at least 3 minutes, taking care to minimize air entrapment. Apply FUERZA ACRI-FLEX immediately after mixing, and do not prepare more material than can be used within 45 minutes.

Application:

Before application, thoroughly dampen the concrete surface with clean water. The ideal condition is *saturated surface dry (SSD)*—the surface should be damp but not wet. Do not apply FUERZA ACRI-FLEX to dry concrete.

While the surface remains damp, apply FUERZA ACRI-FLEX using a bristle brush or roller at a rate of approximately 1.8 kg/m². On horizontal surfaces, this coverage can often be achieved in a single coat; however, applying two coats ensures uniform coverage and eliminates pinholes. For vertical or overhead applications, two coats are required. Allow the first coat to dry completely before applying the next.

For larger areas, spray application may be used. Apply using an airless spray system with a 3–4 mm nozzle at a pressure of 6–8 bar. Conduct trial applications beforehand to determine the most effective method. Maintain a continuous supply of freshly mixed material during spraying. Clean all tools and equipment immediately after use with water—once hardened, the coating can only be removed mechanically.

At corners, joints, or upstands, it is recommended to embed a geotextile mesh within the coating to enhance strength and distribute localized stress. The mesh should be placed between the first and second coats.

Since FUERZA ACRI-FLEX is moisture-tolerant, it can be applied to concrete that is only 24 hours old, providing immediate protection and curing benefits. For areas with deep voids, cracks, or blowholes, reduce the liquid content in the mix to achieve the required consistency for patching and re-profiling. In tanking applications, allow the coating to cure for a minimum of 72 hours before conducting any water tests.

Cleaning:

Utilize clean water for cleaning of equipment and tools.

PACKAGING

FUERZA ACRI-FLEX is packaged as 20 Kg powder and 10 Kg of Liquid additives.

COVERAGE

FUERZA ACRI-FLEX coverage rate is 1.8 Kg/m² at 1 mm thickness.

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