



# TAMOSEAL FLEX-IN

## ELASTOMERIC CEMENT BASED WATERPROOFING TREATMENT

### DESCRIPTION

TAMOSEAL FLEX-IN is a two component cement-based, polymer-modified elastomeric coating designed to waterproof concrete and masonry with inherent crack-bridging ability. When mixed with TAMOSEAL FLEX-IN acrylic admixture, it becomes suitable to seal vertical and light duty horizontal surfaces

### PRIMARY APPLICATIONS

- Concrete and block wall foundations
- Reservoirs
- Manholes
- Balconies
- Water tanks
- Interior/exterior

### FEATURES/BENEFITS

- Waterproofs and decorates
- Durable
- Tenacious bond
- Breathable
- Becomes an integral part of substrate
- Flexible to seal cracks
- Withstands high positive and negative hydrostatic pressures.
- Long working life
- Potable water retaining structures.
- Potable water excluding structures

### TECHNICAL INFORMATION

#### Typical properties of mixed material

Pot life at 20°C .....	2 hours
Pot life at 35°C .....	1 hour
Colour .....	Grey or white
Mixed density .....	1850 - 1900 kg/m <sup>3</sup>
Minimum application temperature .....	5°C

Properties of cured coating (21 days cure at 23°C, followed by 28 days immersion at 23°C). The values obtained are for TAMOSEAL FLEX-IN when applied in two coats each of 1 mm wet film thickness

Resistance to positive water pressure (DIN 1048)	: 7 bar (70 m head of water)
Resistance to negative Water pressure (DIN 1048)	3 Bar
Static crack accommodation	(30 m head of water) :
Dynamic crack1 accommodation capability 0 - 300 - 0 microns cycling after 28 days immersion (University of Surrey method) .	0.9 mm
15°C	: 6,000 cycles (no failure)
0 C	: 6,000 cycles (no failure)
-12°C	: 6,000 cycles (no failure)
Abrasion resistance (ASTM D4060)	: Wear Index 1 (equivalent to 40 N conc.)

CO2 diffusion resistance after 5,000 hrs QUV2	: > 50 m
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NOTE 1 : TAMOSEAL FLEX-IN will bridge an existing crack of up to 0.5 mm in width.

NOTE 2 : UV test required coating to be exposed to 4 hrs. Condensation at 50°C followed by 4 hrs. UV light at 50°C. Total exposure time was 5,000 hours.

Appearance: TAMOSEAL FLEX-IN is available in standard colors: White and Grey.

### PACKAGING

TAMOSEAL FLEX-IN 2 Component is packaged in 18 kg Powder in Craft bag and 5 Kg TAMOSEAL FLEX-IN Liquid packed in HDPE Jerry Can.

## SHELF LIFE

12 months in original, unopened package

## COVERAGE

Brush, roller, trowel application..... 10.5 -11.5 m<sup>2</sup> per pack (18Kg + 5 Kg)  
Spray application ..... 9.0-11.0 m<sup>2</sup> per pack (18Kg + 5 Kg)

NOTE 1 : A minimum coverage of 3.7 – 4.0 kg/m<sup>2</sup> applied in not less than 2 coats is recommended.

## DIRECTIONS FOR USE

**Surface Preparation:** New concrete and masonry must be cured 7 days before application of TAMOSEAL FLEX-IN. The surface must be structurally sound, clean and free of dirt, oil, and other contaminants. Abrade the surface to provide an absorptive surface. Repair all surface defects including cracks and voids. Allow patches and other surface preparations to cure for 24 hours. Saturate surface dry (SSD) the substrate with potable water prior to TAMOSEAL FLEX-IN application.

**Mixing:** The TAMOSEAL FLEX-IN Liquid 5 kg is poured from the plastic container into a plastic or metal drum having a volume of at least 20 litres. To this, the TAMOSEAL FLEX-IN powder is gradually added 18 kg whilst mixing with a spiral paddle attachment on a slow speed drill. Mixing is continued until lump free slurry is obtained. This should take a minimum of 3 minutes and maximum of 5 minutes.

**Application:** Saturate surface dry (SSD) the substrate with potable water before starting any TAMOSEAL FLEX-IN application. **Hand Brush:** Apply TAMOSEAL FLEX-IN using a 15 cm masonry brush. Load bristles with TAMOSEAL FLEX-IN and apply a heavy coat using long, smooth horizontal strokes. Apply sufficient material to fill all voids. Final strokes should all be in one direction to produce an even texture and finish. Allow first coat to dry for 12 to 24 hours before applying a finish coat. **Push Broom:** Use a 20 L pail or wide mouth tub to hold TAMOSEAL FLEX-IN. Dip a 25 cm tampico-bristle push broom into the TAMOSEAL FLEX-IN and mix just enough to load the bristles. Apply a heavy coat using long, even horizontal strokes. Apply sufficient material to fill all voids. Lift the brush at the end of each stroke. Final strokes should all be in one direction to produce an even texture and finish. Do not overbrush. Allow first coat to dry for 12 to 24 hours before applying a finish coat. All the mixed material should be used within 2 hours at 20°C or 1 hour at 35°C.

**Spray:** Use heavy-duty spray equipment capable of spraying cement coatings or mastics.

**Horizontal Applications:** Use a water-based cure and seal from Euclid Chemical on all horizontal applications for added protection and ease of cleaning.

## CLEAN-UP

Clean mixing and application equipment with water immediately after use. Clean any splatter or spills with water before material sets. TAMOSEAL FLEX-IN is a cementitious product containing an acrylic additive, and if allowed to dry on the surface, removal becomes extremely difficult.

## PRECAUTION/LIMITATIONS

- Do not apply to frozen or frost filled surfaces or when temperature is expected to fall below 4°C in the 24 hour period following application.
- Do not use on moderate to heavy traffic bearing surfaces.
- Do not fill open cisterns, tanks, etc. with water for at least 7 days.
- Some colors may chalk or show water marks after weathering.
- Do not proceed with application when rainfall is imminent unless in a sheltered or protected location. The product should not be exposed to moving water during application
- Not recommended for negative side waterproofing where hydrostatic pressures exceed 2.4 m water head.
- TAMOSEAL FLEX-IN should not be applied to surfaces actively leaking.
- TAMOSEAL FLEX-IN should not be used on external surfaces where aesthetic appearance is critical as differences in cure/ drying rate may cause slight colour differences in the final surface.
- In all cases, refer the Safety Data Sheet before use.

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