



Since 2009

SHIELD-CEM FASTFLEX

Shield 202



Technical Data-sheet

It's Our Business to Protect Your Structure.

Advantages of Shield 202

- Shield-CEM Fastflex protects against soil moisture.
- A Safeguard of water seepage.
- Extends the life of structural slabs.
- Creates a flexible membrane that accommodates substrate movement.
- It's breathable, allows interior moisture vapor to escape.

Appearance:

Component A:

- Grey premix powder.
- Component B: Milky liquid

Color:

- Cement grey
(After mixing)

Packaging:

Liquid Component – 5 kg

Powder Component – 7.5 kg

Total: 12.5 KG

Shelf Life:

9 months when properly stored.

Storage:

Store under cover, in dry and cool place with temperature not accessing +30°C. Protect from freezing.

Application Temperature:

5 °C – 40 °C

Description:

Shield-CEM Fastflex is an Acrylic Cementitious Waterproofing Membrane. The main ingredient is styrene acrylic copolymer emulsion. It is weather resistant, heat resistant, ageing resistant, UV resistant and its elongation is high with good elasticity and able to adapt to a certain degree of cracking deformation.

Shield-CEM Fastflex is a rigid cement-based two-component alkali reactive polymer modified waterproofing, ideal for below grade application where

Recommended Uses:

Waterproofing protection for ...

- ◆ Water tanks.
- ◆ Bathrooms, balconies, terraces.
- ◆ Swimming pools, pool decks.
- ◆ Roof top surface.
- ◆ Planter boxes, canopies.
- ◆ External walls.
- ◆ Effective for waterproofing at the negative side of a structure as it is integrally bonded.

How to Apply:

- ◆ Substrates must be sound and level,
- ◆ The surface free from protrusions, large pores, honeycombs, gaping cracks, and ridges.
- ◆ Concrete substrates should be cured 28 days before SHIELD-202 application.

Surface Preparation:

All substrates must be sound and free from dust, excess mortar, oil or other loose particles. Cracks or honeycombs shall be repaired using Shield Con Sealant and Shield Concrete Gum.

Mixing:

Shield-CEM Fastflex is packed, ready to use in 2 components. Shield-202 is supplied in precisely proportioned units ready for mixing.

Always put the liquid mixture in a clean mixing container, and slowly add the powder component whilst stirring. Mix on site using a slow speed mechanical mixer.



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Recommended Coverage:

1. Ground moisture 1.0 ~2.0 kg/m²
2. Hydrostatic pressure 2.0 ~ 2.5 kg/m²

Curing:

- For maximum protection, allow 12 to 24 hours curing time after second coat.
- Leave SHIELD-CEM Fastflex at least 7 days to cure before filling or sealing water to test leaks.

Tensile Strength:

psi (MPa) 200 (1.4)

Elongation:

120%

For Best Performance:

- ◆ Do not apply at temperatures below 4° above 34°.
- ◆ Do not dilute with water or fresh mortar to Shield-202.
- ◆ Do not use additives of any kind.
- ◆ Do not apply thicker than 1.6 mm.
- ◆ Allow coating to harden sufficiently (not less than 3 days) before tiling over it.
- ◆ Do not puncture membrane while setting tiles.
- ◆ Allow 10 days cure before submersion.
- ◆ Proper application is the responsibility of the user.

Slowly add Part B (powder) to Part A while mixing with a 3/4" drill and mixing paddle.

Mix for 3-5 minutes while blending components and 1-2 minutes after all components have been blended. The pot life of Shield 202 is 30-60 minutes depending on the Temperature.

Application:

The mixed Shield-CEM Fastflex can be applied onto prepared substrate using brush or roller. All concrete and cement substrates must be dampened or saturated with water prior to applying Shield-202.

The application must be done with two coats. The 2nd coat in a direction perpendicular to the 1st coat. Leave the 1st coat to set between 1 to 2 hours before applying the 2nd coat.

If the 1st coat is left overnight, the surface must be dampened with water before subsequent applications. The finished Shield-202 Acrylic Cementitious must be protected from rapid drying. Curing shall be at least 3 days before flood testing or shower test.

Health & Safety Precautions

- ◆ Non Flammable.
- ◆ Avoid contact with skin and eyes. Any splashes to the skin or eyes should be washed off with clean water.
- ◆ Wear mask when mixing.
- ◆ Wear protective gloves and eye protection when applied.

Test Data

<u>Property</u>	<u>Results</u>	<u>Test Methods (Criteria)</u>
01. Adhesive Pull-Off Strength	2.2 MPa	ASTM D 4541-A2
02. Adhesion to Concrete	0.6 Mpa	ASTM C 297
03. Tensile Strength	1.4 Mpa	ASTM D 412 (without mesh)
04. Elongation	120%	ASTM D 412 (without mesh)
05. Water Absorption	10%	ASTM D 570
06. Waterproofing	Pass: Resisted 20 ft	15 days at 0.3 MPa
07. Crack Bridging,	2mm	CR-TM 41.1



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