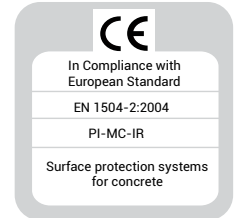


**FLEXIBLE CEMENTITIOUS WATERPROOFING MEMBRANE**

- Excellent water resistance
- High/low temperature flexibility and good tensile strength simultaneously
- Efflorescence, alkali and chloride resistance
- Excellent elongation and suitable for areas of potential cracking
- For concrete, masonry with excellent adhesion
- No water curing
- Environment friendly and suitable for potable water storage tanks
- Active barrier against carbon dioxide (Co₂)

**PRODUCT DESCRIPTION**

SUPERSHIELD FLEXI is a two-component, flexible cementitious waterproofing membrane consisting of a specialized liquid polymer dispersion and a cementitious powder. These components are mixed just prior to application. SUPERSHIELD FLEXI is suitable for areas of potential cracking. The initial and final bonding ability of SUPERSHIELD FLEXI is excellent, making it suitable to be applied on horizontal as well as vertical surfaces. It is durable, resistant to frost and UV after setting and at the same time vapour permeable. SUPERSHIELD FLEXI is an active barrier to carbon dioxide (Co₂). This will ensure that all crevices and fine cracks are all sealed and waterproofed. SUPERSHIELD FLEXI is not a decorative material.

AREAS OF APPLICATION

SUPERSHIELD FLEXI is applied to surfaces such as concrete, masonry and render, which have to be sealed and protected against the influence of water and moisture. Owing to its elastic properties it is used in zones posing cracking or deforming problems. SUPERSHIELD FLEXI is tested for use in drinking water reservoirs. Minimum of two coats to be applied.

RECOMMENDED FOR

- Waterproofing of concrete basins used for containing water
- Waterproofing bathrooms, showers, balconies, terraces, swimming pools, etc. before laying ceramic tile finishes
- Waterproofing of construction joints and horizontal and vertical junctions
- Flexible smoothing layer for light-sectioned concrete structures, including those subjected to minor deformation when under load (e.g. pre-cast panels)
- Protection of renders or concrete with cracks caused by shrinkage, against the infiltration of water and aggressive atmospheric elements
- Protection, against the penetration of carbon dioxide, of concrete pillars beams and road and railway viaducts



Performance Data of FLEXI A (Powder Component)

Volume Solids, %	83
Touch Dry, Hour	2.5
Dry through, Hour	6.0
Elongation @ break %	180 - 235
Tensile Strength	1.4 Mpa
Flexural Strength	9.7 N/mm ²
Toxicity	Non-toxic
Adhesive strength	0.6 N/mm ²
Water Resistance	@ (5 Mpa) Pass

Physical properties of FLEXI B (Liquid Component)

Glass Transition, (.c)	--8
pH	7.0
Solids content (%) (EN ISO 3251)	56.5
Viscosity, cps	1000
Density (g/m), wet	1.02

Performance characteristics for CE certification according to EN 1504-2:2004, 2+

Test type	Standards	Performance
Permeability	EN 1062-6	>50
Permeability to water vapour	EN ISO 7783-1,2	Class I S _b < 5m
Capillary Absorption and Permeability to water	EN 1767	≥ 1.5 MP a
Strength of Adhesion to indirect traction	EN 1542	≥ 1.5 MP a
Reaction to Fire		Class A1
Dangerous Substances		Complies with 5.4

The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.



APPLICATION GUIDELINES

SURFACE PREPARATION

Substrate to be applied with SUPERSHIELD FLEXI must be clean and free from laitance, loose particles, curing agent, dirt, oil, grease, asphalt and paint. Cracks larger than 1 mm and honeycombs are to be routed out and sealed with SUPERSHIELD BONDPLAST. Substrate must be thoroughly wet with water and allow it dry to a damp surface prior to the application of SUPERSHIELD FLEXI

Caution: No standing water or excessive water shall remain on the substrate that is to be applied with SUPERSHIELD FLEXI.

MIXING

Before use, shake the liquid component well. Mix 25 kg of SUPERSHIELD FLEXI (Part A - dry component) with 12 kg SUPERSHIELD FLEXI (Part B – liquid component) in a clean container for at least 3 minutes to a lump-free, homogeneous consistency. Use a mechanical mixer.

APPLICATION

Do not apply at temperatures below +5 °C, or to a frozen substrate. SUPERSHIELD FLEXI is applied with brush, trowel or suitable spray equipment in at least 2 coats of an overall thickness of 1–2 mm. Depending on the slurry consistency, a maximum of 1 mm (0.75 kg/m² - 1kg/m²) can be applied in one working cycle. Apply second coat whilst the first coat is still damp at the surface. Allow approximately 2–4 hours between the coats, the second coat should not damage the first coat.

CURING

No water curing is required for the SUPERSHIELD FLEXI coating. However the coating must be protected against extreme weather conditions (e.g. rain, wind, frost etc.) for minimum 18 hours. Water ponding has to be carried out only after seven days of application.

CLIMATIC CONDITIONS

Do not apply SUPERSHIELD FLEXI at temperatures below +5 °C(40 °F) or to a frozen substrate.

FILLING OF WATER RETAINING STRUCTURES

In accordance with standard water industry practice, particular care needs to be taken on the following:

Clean all surfaces (ceiling, walls, slab, columns, stairs, etc.) with potable water (do not use high pressure).

Remove all cleaning water.

Filling can take place when the surface treatment has hardened sufficiently, usually not less than 14 days after application. However, if earlier filling is specifically required, filling may be considered after a minimum of 7 days, provided the surface is thoroughly checked for hardness.

HEALTH AND SAFETY

SUPERSHIELD FLEXI contains chemicals, which may cause skin irritation. For personal precaution, protective gloves and goggles are recommended to be worn during handling of this product. If product gets in contact with the eyes, flush immediately with clean water and seek medical assistance if symptoms prolong.

STORAGE

When stored in a dry place in unopened, undamaged original packaging, shelf life is 12 months.

PACKAGING

SUPERSHIELD FLEXI is packaged in a unit of 37 kg, which includes SUPERSHIELD FLEXI A (Dry Component)- 25 kg and SUPERSHIELD FLEXI B (Liquid Component)- 12 kg.