



CemFlex

Flexible 2 Parts Cementitious Waterproofing System

Description

CemFlex is a flexible 2 parts acrylic - modified cementitious waterproofing system. The 2 components of CemFlex reacts chemically after mixing to form a hard and elastic film which bond tenaciously to most concrete or masonry substrate to project against possible ingress of water.

The application of CemFlex requires the surface to be saturated or wetted down prior to its application. this make CemFlex a practical and ideal product for waterproofing in damp conditions such as basement, wet areas and external areas of most sites where the surface has to be pre - washed prior to applying any waterproofing system. In external areas. application of CemFlex is not affected by changed in weather conditions.

CemFlex can receive direct plaster or screed without affecting bond. Marbles and tiles can be fixed directly onto CemFlex with most type of adhesives.

CemFlex can accommodate slight movement of structure and can be used as a repair material for bridging cracks in substrate or cracks due to shrinkage up to 2mm width.

Uses

Apply on interior and exterior surface of wall and slab, swimming pools, kitchens, toilets, balcony, water tanks
External areas parking deck, planter boxes, sealing precast joints and intersection of two concrete elements.

Protection to lightweight block, hollow blocks, aerated blocks

Suitable Substrate

- 1) Concrete
- 2) Brickwork
- 3) Precast Surface
- 4) Lightweight Blocks
- 5) Shotcrete

Advantages

- 2 component eliminates risk of incorrect mixing ratio.
- Seal lightweight aerated blocks
- Seal precast joints
- Anti-carbonation protection
- Non toxic
- Foot trafficable when cured
- Will not attack metal
- No protection require prior to fixing other types of finishes

Technical Data

Tensile strength	>1.2N/mm ²	ASTM D4112- 92
Elongation at break	>100%	ASTM D412 - 92
Adhesion to concrete	>1.0N/mm ²	ASTM D4541
Hardness Shore A	>75	ASTM D2240 : 91
Improves water resistance of concrete by more than	Passed	DIN 1048 7 times@ 0.2kgf/cm ²
Chemical resistance	Passed	NaOCL - 0.5% NA4OH - 1.25% HCl - 3.7% BS 6920
Toxicity	Passed	BS 6920
Flexible over 25mm diameter mandrel	Passed	
Bridge cracks up 2mm	Passed	
Water vapour transmission		<25g/m ² /24hrs
Choride content		<0.01%
Pot Life (@30C)		Approx. 2hours
Drying time (30C) Touch dry		Approx 1 - 3 hours



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Surface Preparation

Clean the substrate of any protrusion or substrates that may damage the membrane. Ensure all surfaces are free from dirt, dust, grease, oil, wax, curing compounds and any other loose contaminating materials.

Fill all voids, cracks, edges and angles with SPARTAN RMP 20 or suitable repair materials, so that the prepared surfaced is sound, even and clean.

Mixing and Application

Put CemFlex Liquid into a clean mixing container. Add the CemFlex Plus Powder gradually while mixing until a lump free plastic consistency is achieved. No ADDITION OF WATER IS ALLOWED. It is recommended that mechanical mixing (400-500rpm) should be used for 2-3 minutes to ensure proper dispersion of the components.

Pre-wet the surface with clean water. Do not allow water ponding. Very porous must be primed with SPARTAN Acr Primer prior to applying CemFlex. Apply the mixed material onto the prepared surface using a block brush, squeegee or roller in a stiffling action. Apply 1 - 2 coats finish depending trowel is used for application, all undulating or uneven areas must be patched to level before applying the CemFlex to prevent the material from building up too thick in one application.

Before a second coat is applied, the first coat must be left approximately 2-3 hours depending on the thickness, substrate porosity and the temperature until it is dry and tacky.

Coverage and Packaging Size

Pack Size	Thickness	Coverage (min 2coats)	Consumption
42kg/set	0.6mm	approx. 34m ²	approx 1.5kg/m ²
10kg/set	0.6mm	approx 8m ²	approx 1.5kg/m ²

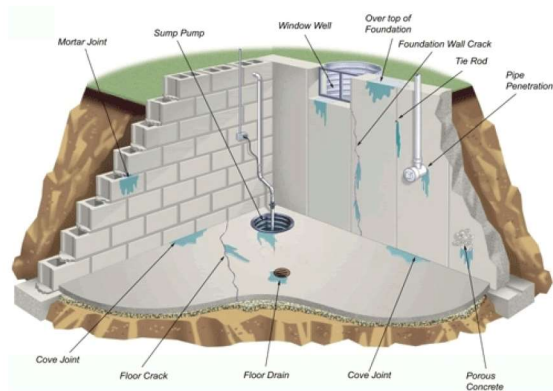
Cleaning

All tools and equipment should be cleaned immediately with clean water after use. Hardened material can only be removed mechanically.

Health and Safety

Product contains cement, which may cause dermatitis. Wear rubber gloves when handling the product. In case of sufficient ventilation, put on suitable respiratory equipment.

Do not apply the product when the surface temperature is below 5°C or greater than 45°C. Product is classified as non-hazardous.



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