



FORMULATED FOR THE PROFESSIONAL™

VT- 442 VitalShield Flex - Cementitious Waterproofing

Product Description

VitalShield Flex is a flexible 2 part acrylic modified cementitious waterproofing system. It is formulated with specially selected and graded fine quartz polymer to create brushable, smooth slurry with excellent bond and adhesion to most substrate. The VitalShield Flex reacts chemically after mixing to form a hard and elastic film which bonds tenaciously to most concrete or masonry substrate to protect against possible ingress of water.



VitalShield Flex can receive direct plaster or screed without affecting bond. Marbles and tiles can be used as a repair material for bridging cracks in substrate or cracks due to shrinkage up to 2mm.

Uses

Swimming pool, Bathrooms, Roof slab, Roof Gutters, Balconies, Planter boxes, intersection of two concrete elements, Water tanks and precast surface.

Advantages

- Being cementitious, it has similar expansion as concrete and becomes part of the structure after cured.
- Provides a durable, seamless, and flexible film and protects concrete from corrosive salts and atmosphere gases.
- Seals precast joint
- Anti-carbonation protection, Non-toxic and VOC compliant.

Surface Preparation

Clean the substrate of any substances that may damage the membrane. Ensure all surfaces are free from dirt, dust, grease, oil and any other loose contaminating materials. Fill all voids, cracks, edges with vital grout.

Mixing and Application

Put VitalShield Flex liquid in to a clean container. Add powder gradually while mixing until a lump free plastic consistency is achieved. It is recommended that mechanical mixing (300-500rpm) should be used for 4-5 minutes.

Damp the surface before the Application. Apply the mixed material onto the prepared surface using Brush.

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

VitalShield Flex must be protected by rendering after application.

Coverage and Packing size

33.0Kg (23Kg powder, 10Kg liquid)	220 ft ²
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Technical Data

Appearance	Grey powder, white liquid	
Tensile Strength	> 1.8N/mm ²	ASTM D412-92
PH (25 ⁰ C)	11-13	
Elongation at break	> 180%	ASTM D412-92
Adhesion to concrete	> 1.0 N/mm ²	ASTM D4541
Application Temperature	5 ⁰ C – 45 ⁰ C	
Bridge cracks up to 2mm	Passed	
Chloride content	< 0.01%	
Toxicity	Passed	BS6920
	(can be used for drinking water tank)	
Chemical resistance	Passed	NH ₄ OH-1.30%
		HCl- 3.6%
Pot life (at 30 ⁰ C)	Approx 3 hours	
Initial set	Approx 2-3 hours	
Final set	After 24 hours	
Pond test	48 hours after Application	

Storage

Shelf life up to 12 months from the date of manufactured. Stored in a dry place free from moisture contact.

Cleaning

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

Health and Safety

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

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