

Crocodile Super Shield Series

Waterproofing Cement



Crystalline Waterproofing Coating

Crocodile Super Shield Series is cementitious waterproofing compound to apply as slurry to concrete surface where it forms an impermeable barrier to the passage of water in the liquid state but allow gases (air or vapor) to pass through.

Product Features

- Crystallization penetrates deeply into concrete surfaces, providing powerful adhesion.
- Blocks pores, capillaries and micro cracks to stop liquid water passage.
- Powerful pressure resistance up to 7 bar (70 m. depth)
- Resists high hydrostatic heads, protects concrete from water borne aggressive chemicals and freeze- thaw damage.
- Safe and non-toxic.

Application

Waterproofing and protection water retaining structures, such as terrace, veranda, drinking water tanks, reservoirs water mains, swimming pools, bathroom, kitchen and below-grade structures like basements, retaining walls, foundations, tunnels.

Standard : BS 1881

Color : Grey

Application Instruction

Substrate Preparation

- All concrete to be treated must be clean and have an open capillary surface. Remove laitance, dirt, grease, etc.
- Grind-off any paint or coatings to provide an open-capillary structure
- Faulty concrete in the form of cracks, honeycombing, etc. must be chased out, and filled flush with repair mortar.
- Surfaces must be carefully pre-watered prior to Super Shield Series application. The concrete surface must be damp but with no wet sheen on the surface.



Mixing ratio

Crocodile Super Shield Series 2.5 kg : Water 1 liter.

Crocodile Super Shield Series 2 parts : Water 1 part (by volume)

Mixing

- Use a slow speed 150 rpm hand drill and paddle to mixed Crocodile Super Shield Series with clean water to a creamy consistency.
- Mix only as much material as can be used within 20-30 minutes and stir mixture frequently.
- If the mixture starts to set, do not add more water; simply re-stir to restore workability.

Application

For slurry

- Apply Crocodile Super Shield Series in two coats according to specification by brush.
- The second coat should be applied, allowing 15-30 minutes apart between each application.
- When finished, surface should be left to dry at least 24 hours.

For dry powder on horizontal surfaces

- After concreting, allow the concrete to begin setting and for bleeding water to appear on the surface. Remove the bleeding water.
- Distribute powder and trowel into the freshly placed concrete once initial set begins

Estimated Coverage

For slurry : 1-1.5 kg/sq.m/ 2 coats

For dry powder : 2-3 kg / sq.m

Application Type	Hydrostatic Head (bar)	Application Rate (kg / m ²)	
		Positive	Negative
Damp proofing	0	0.4-0.6	0.4-0.6
Waterproofing Low	1	0.7-1.0	1.0-1.5
Waterproofing Moderate	1-2	1.0-1.5	1.5-2.0
Waterproofing High	> 2	1.5-2.0	2.0-2.5

• 1 bar = 10 meters of water height • Positive Pressure = the side exposed to water / Negative Pressure = the opposite side

Technical Data

Test Method	Standard	Evaluation
Bulk Density	In House	~1.6 kg/L
Initial Surface Absorption - 60 min.	BS 1881 Part 5	0.37 ml/sq.m/sec.
Depth Penetrated by Microscope	In House	20 cm.



Limitation

Do not apply Crocodile Super Shield Series at dry surface. The surface must be damp.

Caution

- Cement may cause injury to skin or eyes. Use of rubber gloves, dust masks, eye protection, and other safety equipment is recommended.
- If contact with eyes occurs, flush immediately and repeatedly with water, and then contact doctor immediately.
- Keep out of reach of children

Storage

- It should be kept in a dry place and the temperature is not too high to avoid product's degradation.
- Shelf life for 1 year since manufactured date.

Packing

Net weight : 25 kg/bag, 5 kg/bucket

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