Crocodile Perfect Shield

Crystalline Penetrate Waterproofing Cement

CROCODILE
Innovation for Your Family's Happiness
REPAIRING INNOVATION

Crystalline Penetrate Waterproofing Cement

Crocodile Perfect Shield is a surface-applied material which waterproofs and protects concrete in-depth. It consists of Portland cement, specially treated quartz sand and a compound of active chemicals. It may be applied to either the pressure or non-pressure concrete face (i.e. with or against water pressure).



Product features

- Waterproofing and chemical resistance properties remain intact even if the surface is damaged.
- Penetrates deeply and seals concrete's capillary tracts and shrinkage cracks
- Powerful pressure resistance up to 16 bar with both the positive and negative side
- Completely effective against high hydrostatic head pressure
- Allows concrete to breathe, eliminating water vapor build up and leaving the concrete completely dry.
- Seals cracks up to 0.4 mm.
- Non toxic

Application

Waterproofing and protection water retaining structures, basement retaining walls, tunnels and subway systems,foundations, underground vaults, swimming pools, reservoirs water mains, sewage and water treatment plants,

Application Instruction

Substrate Preparetion

Concrete surfaces to be treated must be clean and free of laitance, dirt, film, paint, coating or other foreign matter. Concrete surfaces must be thoroughly saturated with clean water prior to the application.

Application

Add Crocodile Perfect Shield to the water. It can apply with a brush. In case of the second coat is required, it should be applied after the first coat 20-30 minutes. Light pre-watering between coats may be required due to drying. It can be applied in 30 minutes.

Estimated Coverage

Vertical surfaces : 0.7-0.8 kg/m^2 with 2 coats
Horizontal surfaces : 1 kg/m^2 with 1 coat

Curing

The surface should be left to dry at least 24 hours. For optimum performance, the treated areas should be kept damp for 3 days.

www.cera.co.th

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Technical Data

Test	Evaluation	Standard
Bulk	~1.4 kg/L	-
Water Permeability under head pressure	232 PSI (1.54 Mpa)	CRD-C-48-73
Compressive Strength @ 28 d	>6%	ASTM C39
Freeze / Thaw Cycle Test	50 Cycles-Marked decrease in erosion compared to untreated contact	ASTM C-672-76
Chemical Resistance	pH range 3-11 constant contact	ASTM C-267-77
Radiation Resistance	No effect from gamma radiation = > $5.76x10^4$ Rads	ASTM N69-1967
	No effect from gamma radiation 50 M Rads	ISO 7031
Chloride Content	Perfect Shield effects are NOT related to chlorides	AASHTO T-260
Non toxic	Pass	BS 6920
Depth Penetrated by Microscope	50 mm.	

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.
- Avoid contact with skin. Wash thoroughly after handling.
- Keep out of reach of children

Packing

Net weight : 5, 20 kg

U.S.A. Standard from the Crocodile Family