



CRYSTIFLEX

1

Crystalline Polymerized Waterproofing Coating Powered by Addiflex-CSH Technology

Product Description:

Crystiflex is a waterproofing coating designed for waterproofing of concrete substrates. It incorporates a high-performance crystalline additive (Addiflex-CSH) along with selected hydraulic binders to provide deep-penetrating, self-healing waterproofing for concrete and masonry substrates. Upon application, active components react with moisture in concrete to form insoluble crystals that permanently block water pathways and seal hairline cracks.

Key Features & Benefits:

- Self-healing crystalline action
- Seals microcracks up to 0.5 mm
- Durable, permanent waterproofing
- Suitable for positive & negative pressure
- Withstand water pressure up to 5 bar
- Polymer added for better adhesion and flexibility
- Non-toxic—safe for potable water use

Areas Of Application:

- Concrete water tanks, reservoirs
- Basements, retaining walls
- Sewage and drainage structures
- Lift pits, tunnels, wet areas
- Foundations and underground works
- Roof and facades

Surface Preparation:

The concrete must be sound, clean, and in SSD condition. Remove all laitance, oil, dirt, or surface contaminants from the surface. Surface roughness (e.g., light scabbling) improves adhesion of the product and is advised.

Mixing Instructions:

- Add 5-6 L clean water into a clean mixing container
- Slowly add 25 kg of Crystiflex while mixing with a power mixer
- Mix for 3-4 minutes until a smooth, lump-free slurry is obtained

Application Guidelines:

- Apply using stiff brush, masonry roller, or suitable spray
- Apply 2 to 3 coats for full waterproofing effect
- Allow first coat to dry (4-6 hours) before applying second coat
- Spray water and keep the surface damp for minimum three days



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Coverage/ Consumption:

General waterproofing	3 kgs/ Sq mtr	2 coats
For high hydrostatic pressure	4 kgs/ Sq mtr	3 coats
For Water storage tanks	3.5-4.5 kgs/ Sq mtr	2-3coats

Curing & Protection:

Protect the surface from rain & frost while curing. Spray water and keep the surface damp for minimum three days. Curing time is 3-5 days.

Packaging:

CRYSTIFLEX is available in 15kg pails and 25 kg PE bags.

Storage & Shelf life:

Store for up to 6 months in unopened original packaging. Keep in cool, dry conditions away from frost, moisture and direct sunlight.

Health & Safety:

This product contains Portland cement and can cause skin/eye irritation. Use gloves, goggles, and protective clothing. Refer to the Safety Data Sheet (SDS) for detailed health and safety instructions.

Technical Data:

Property	Value
Appearance	Grey powder
Mixing Ratio	~5-6L water per 25 kg bag
Pot Life at 25°C	~45 minutes
Bulk density	1.33 - 1.45 g/cm ³
Application Temperature	+5°C to +35°C
Compressive Strength (28 days)	> 35 MPa
Water Permeability Resistance	Up to 5 bars
Crack Sealing Capability	Up to 0.5 mm
Adhesion to Concrete	> 1 MPa
Setting Time	~3-5 days