



## 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 05 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



## CRYSTIFLEX

### 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 <sup>3</sup> |
| Application Temperature        | +5°C to +35°C                 |
| Compressive Strength (28 days) | > 35 MPa                      |
| Water Permeability Resistance  | Up to 10 bars                 |
| Crack Sealing Capability       | Up to 0.5 mm                  |
| Adhesion to Concrete           | > 1 MPa                       |
| Setting Time                   | ~3-5 days                     |