



# COTEFLEX CW

Crystalline capillary waterproofing  
system for cementitious substrates



## **DESCRIPTION**

**BYZON COTEFLEX CW** is a cement based powder crystalline waterproofing system for concrete and mortar to prevent water infiltration or seepage of water in the area of low pressure of concrete structure or any cementitious substrate. COTEFLEX CW forms slurry consistency when mixed with water. When it is applied to the concrete substrate, it works as pore blocker and forms insoluble crystals inside water bearing capillaries and seals against further seepage of water.

## **FEATURS & BENEFITS**

- Migration of active components and crystalline formation to seal capillary network
- Easy to apply
- For positive and negative side waterproofing.
- Good adhesion to concrete
- Application on concrete and repair mortars
- No added chloride
- Non-toxic

## **AREA OF APPLICATION**

- Water tanks, reservoirs
- Building basements and foundations
- Swimming pools and water parks
- Sewage and water treatment plants
- Dams, canals, tunnels, harbours
- Retaining walls and sea defense walls
- Concrete pipes

## **METHOD OF APPLICATION**

### **1. Surface preparation old concrete**

- Surfaces must be clean and sound. Remove all oil, dirt, laitance and other contaminants by water blasting.
- Water blasting is preferred for surface preparation because it mechanically cleans and roughens the surface, is environmentally safer and leaves the surface saturated with water.
- Surface must be damp for application of COTEFLEX CW crystalline waterproofing system, concentrate.

### **2. Surface preparation new concrete**

- After forms are stripped, acid etch or water blast as above to remove form oils and laitance. Surface must be left damp for application on COTEFLEX CW crystalline waterproofing system. Construction joints, cold joints and non-leaking joints greater than 0.4 to 20 mm wide must be cut in V-groove shape and filled with COTEFLEX CW crystalline waterproofing system in mortar consistency and then laminate groove with COTEFLEX CW

### **3. Mixing**

- For best results, clean, potable water should be added to COTEFLEX CW crystalline waterproofing system concentrate.

### **4. Existing concrete**

- 3 parts of powder shall be added to 1 part of clean and mixed thoroughly with a slow speed drill equipped with a paddle. For larger batches, mixing shall be done with a mortar mixer. Do not mix more material that can be used in 20 minutes @24°C, 50% R.H. If mixture thickens, it shall be re stirred to reduce consistency. Extra water should not be added.

### **5. Curing**

- Prevent COTEFLEX CW from rapid drying and keep it damp for 5-7 days by mist spraying of water and covering with polythene sheet. Do not use curing compounds. Screen the area from weathering, sun, frost and wind during the period.

### **6. Cleaning**

- Use water to clean equipment and tools before the material hardens. Cured material can only be removed mechanically.

## **TECHNICAL INFORMATION**

PROPERTIES	RESULT
Appearance	Grey Powder
Pot Life	30 to 60 min
Dry film thickness	min 0.7 mm - 1.5 mm
Compressive Strength	25 N/mm <sup>2</sup> @ 28days
Flexural Strength	6 N/mm <sup>2</sup> @ 28days
Water Impermeability	Min. 12bar (-ve/+ve side)

## **COMPLIANCE STANDERD**

- IS 2250:1981, DIN 1048, ACI-212-3R-2010

## **COVERAGE**

- Approx 100ft<sup>2</sup>/20kg COTEFLEX CW @ 1 mm thickness application (Brush)  
(Actual coverage rates will depend upon the profile and porosity of the substrate)

## **PRECAUTIONS & LIMITATIONS**

- › COTEFLEX CW should not be used when the temperature is 5°C and falling. Full activation and effectiveness of COTEFLEX CW may require 2- 3 weeks following application.

## **SHELF LIFE**

- › 12 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temperature.

## **PACK SIZE**

- › 20 Kg bag

## **SAFETY PRECAUTIONS**

- › Keep out of reach of children. Wear suitable protective clothing, gloves and eyes/face protection. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Limited to professional use only.