

# Conplast CWP

## High performance integral crystalline waterproofing for concrete

### Uses

To permanently protect of concrete by the active chemically in Conplast CWP penetrate concrete react chemically with the moisture in fresh concrete and free lime to produce insoluble crystal. The crystalline will filling porosity, capillaries and crack up to 0,4mm wide. Conplast CWP becomes an integral part of concrete during the life of concrete. The active chemical continues producing crystals and a lasting protect concrete from water although the future concrete cracks appear, the crystal will grow and fill the cracks during the life of concrete. Ideal to be used for basement floors and walls, foundations, pile cap, reservoirs, sewage and water treatment plants, tunnel and subway system, swimming pools, secondary containment structures, underground vaults, parking structures, pre-cast components.

### Advantages

- Non-toxic – recommended for potable water tank
- Easy and less costly to apply – manufactured in the form of a clear transparent liquid.
- Resists extreme hydrostatic pressure from either positive or negative surface of the concrete
- Becomes an integral part of the concrete during the life of concrete
- Highly resistant to aggressive chemicals
- Can seal hairline cracks up to 0.4 mm wide although the future concrete cracks appear
- Allows concrete to breathe so there is no condensation
- Permanently protect concrete
- Increases flexibility in construction scheduling and easy to control dosage because added to the concrete on site
- therefore is not subject to climatic restraints
- Waterproof remains even if concrete surface is damaged
- Contains no chloride that does not damage the concrete and reinforcement
- Develop higher ultimate strengths than plain concrete.

### Description

Conplast CWP is a clear transparent liquid that is added to concrete for treatment concrete corrosion protection and waterproofing by crystallization. Contains unique active chemicals. Conplast CWP manufactured in the form of a clear transparent liquid.

### Technical Support

Fosroc provides a technical advisory service for on-site assistance and advice on product selection, evaluation trials and application procedure. Technical data and guidance can be provide for admixtures and other products for use with fresh and hardened concrete.

### Properties

Appearance	: Clear transparent liquid
Density	: Approx. 1.20
Chloride content	: Nil
Water Permeability	: <5cm
According to BS 1881 Part 122:1983	
Water absorption	: <1%
According to BS 1881 Part 122	
Potable Condition	: Complied
According to BS 6920 Part 1:2000	
Toxicity	: Non-toxic.
According to BS 6920-1 : 2000	
Chemical Resistance: pH range 3-11.	
According to ASTM C-267-77	

*\* Properties are typical under laboratory conditions and do not constitute a specification. Field trials are recommended.*

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## Recommended Mix Proportion

Cement minimum 350 kg/m<sup>3</sup>

Water cement ratio maximum 0.45

Slump 120 ± 20mm – 18 ± 20mm

Conplast CWP dosage 0,8% by weight of cement

## Specification Clauses

“The concrete shall be waterproofed with Conplast CWP as supplied by the manufacturers and used strictly in accordance with their instructions”.

For more complete specification, the following paragraph can be added:

“For waterproof concrete, the mix shall consist of:

Cement to BS 12 (OPC) or BS 4027 Sulphate resisting (state type)

5 – 20 mm graded gravel aggregate to BS 882

Grade M washed sand to BS 882

Conplast CWP, dosage 0,8% by weight of cement

The concrete shall be fully compacted by mechanical vibration and shall then be cured using Concure curing membrane, wet hessian or damp sand”.

## Application Instructions

Conplast Swellable waterstop Supercast SW 10/30\* or Supercast PVC\* or Supercast Predimax\* type are recommended to provide an integral sealing system for construction joint in cast in situ concrete.

CWP will not make poor. Concrete become waterproof. Good concrete practice must be followed at all times. Care must be taken to ensure good grading of the aggregate sand minimum cement content of 350 kg/m<sup>3</sup> is recommended. For other specification please consult with Fosroc Technical.

Adequate waterstop between lifts and floors bays must be provided in accordance with BS 5337.

Dosage

Dosage rate Conplast CWP: 0.8% by weight of cement.

Consult with Fosroc Technical Department for assistance in determining the appropriate dosage rate and for further information regarding enhanced chemical resistance, optimum concrete performance, or meeting the specific requirements and conditions of your project.

## Overdosing

An overdose of Conplast CWP will result in fast setting of the concrete, but the ultimate strength of concrete will not be reduced provided good curing is maintained.

## Joint

Swellable waterstop Supercast SW 10/30\* or Supercast PVC\* or Supercast Predimax\* type are

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### Important note

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recommended to provide an integral sealing system for construction joint in cast in situ concrete.

## Curing

Good curing methods should be used, such as water spray, wet hessian, or the use of a curing membrane of the Concure\* type.

## Packaging

Conplast CWP is supplied in 20 litre pails or 210 litre drums.

## Storage

Conplast CWP has a minimum shelf life of 12 months provided the temperature is kept within the range 20c to 50c.

## Precautions

### Health and Safety

Conplast CWP is alkaline. As a clear transparent liquid, Conplast CWP may cause significant skin and eye irritation. Directions for treating these problems are clearly detailed on all Fosroc pails and packaging. Fosroc also maintains comprehensive and up-to-date Material Safety Data Sheets on all its products. Each sheet contains health and safety information for the protection of your employees and customers. Contact your local Fosroc representative to obtain copies of Material Safety Data Sheets prior to product storage or use.

### Additional Information

Technical data and guidance can be provided on a wide range admixtures and concreting aids including accelerators, plasticisers, air entraining agents, waterproofers, mould release agents, surface retarders, workability aids, grouts and repair materials.

\* See separate data sheet

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