

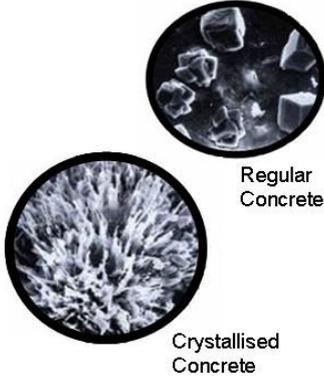
# Contec

# C1



## Crystallising Concrete Waterproofing Compound

### CRYSTALLINE GROWTH PRINCIPLE



Contec crystallising waterproofing compound is an intelligent, self-sealing waterproofing system that transforms porous concrete into a permanent, water-resistant barrier. The system provides a structural defence against water damage and steel reinforcement corrosion. When Contec crystallising waterproofing compound is combined with water and concrete, it reacts with the unhydrated cement particles to form millions of needle-like crystals. Over a period of weeks and months, these crystals grow, filling the naturally occurring pores and voids in concrete, and permanently blocking the pathways for water and waterborne contaminants.

**Contec C1** is a cementitious powder compound used to waterproof concrete. **Contec C1** contains chemicals which react with concrete, forming a waterproofing crystalline structure within the pores of the concrete.

### NEW CONCRETE STRUCTURE WATERPROOFING – PROTECTION AND STRENGTH



### INTERNAL MEMBRANE

Using crystalline growth in new structures provides many benefits: **DURABILITY; RESISTS HYDROSTATIC PRESSURE; CHEMICAL RESISTANCE; PERMANENT SELF HEALING**

Add 5kg of Contec **C1** per cubic meter of concrete. Due to the plasticising effect, reduction of the mix water may be required to attain desired slump or workability. Alternately, Contec **C1** can be applied to freshly poured concrete as a dry-shake treatment during the finishing process.

### EXISTING CONCRETE WATERPROOFING – REPAIR AND MAINTENANCE



### REMEDIAL (NEGATIVE TANKING)

Ensure the surface is well prepared.

**Remedial applications**, defective concrete cut out and repaired with Contec **C1**.

**Slurry applications** need the surface to be saturated with water first. Then apply 2 coats of Contec **C1** with brush or soft broom. Allow 2 hours between coats.

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TECHNICAL DATA



## SLURRY APPLICATION

Prior to application, all cracks and joints are to be repaired and cleaned. Mix Contec **C1** into a slurry consistency, 5 parts powder to 2 parts clean water. Using a concrete brush, apply an aggressive circular motion to coat the concrete. Allow the product to harden (approximately 3 hours)

## SLURRY COVERAGE

0.8 kg per m<sup>2</sup>

## CURING

Completed applications should be moist cured for 48 hours and protected from rain and light traffic for 12 hours. Heavy traffic should be avoided until the surface has hardened. Treated concrete surfaces should not be permanently exposed to liquids for 7 days. Finishes containing Portland cement may be applied over Contec **C1** after 3 hours, but other paint and coating finishes should not be applied before 28 days

## PHYSICAL PROPERTIES

<b>Colour</b>	Grey
<b>Texture</b>	Powder
<b>Particle Size</b>	40-150 microns
<b>Bulk Density</b>	1.4
<b>PH (when mixed)</b>	13
<b>Rate of Penetration</b>	2 mm per week

## PRECAUTIONS

Do not apply when the surface temperature is below 5°C. Contec **C1** in a slurry format has a high pH which necessitates protective clothing and eye wear. The product is not designed to be a decorative surface and will change the surface colour.

## PACKAGING

2.5 kg can  
6.25 kg pail  
12.5 kg pail

## SAFETY PRECAUTIONS

Wear rubber gloves and protective clothing. Avoid contact with skin and eyes. Avoid inhaling product dust.

## FIRST AID

If poisoning occurs contact a doctor. If effected flush repeatedly with water and wash skin thoroughly.