

TECHNICAL DATA SHEET

CONSTRUCTION CHEMICALS WATER SEAL FOR USE IN ACTIVE WATER ENVIRONMENTS

USES

Construction Chemicals Water Seal is used in situations where sealing against live water or grout movement is required. Areas of use include plugging of concrete panels and joint sealing prior to grouting operations, sealing of basements, concrete pipes, sewage systems and foundations.

DESCRIPTION

Construction Chemicals Water Seal is a cement-based, shrinkage-compensated, ready-to-use mix including chemical modifiers and selected graded aggregates. The mixed product is an ultra rapid setting plugging mortar.

ADVANTAGES

Rapid Setting	Typically placed mortar will set in three minutes
Rapid Plug	Once set, stops running water
Water Tight Seal	Shrinkage compensation ensures complete plugging of leakage path
Easy to Use	Only requires the addition of water on site

SPECIFICATION OUTLINE

Plugging and sealing operations shall be carried out using Construction Chemicals Water Seal. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

APPLICATION

Preparation

All contact surfaces must be sound, clean and provide a good mechanical key. Remove all loose material, plaster, paint and oily deposits. Cracks should be cut back to a minimum of 20mm depth and width preferably undercutting. Avoid feather edging.

Priming

Where placing or plugging is being carried out in wet conditions, no priming is necessary. If concrete surfaces are dry, dampen with water before application of the Construction Chemicals Water Seal to assist adhesion.

Mixing

Mix powder approximately 4 parts by volume to water approximately 1 part by volume. For damp cracks and fillets mix should be semi-wet. For active water, mix should be a stiff consistency. Mixing should be carried out using a gloved hand. Do not mix more than can be placed within 2 minutes.

Placing

Apply the Construction Chemicals Water Seal into the crack or fillet using a fillet trowel. When working against water pressure, work towards the point of highest pressure and finish using a gloved hand forcing the material against the pressure until set. Cut off excess material from face within 3 minutes. Dampen fillet after application.

N.B. The use of warm water is acceptable at temperatures of 5°C and falling.

Curing

Where heat generation takes place, cool with water for 10 minutes after application.

TYPICAL PROPERTIES AT 20°C

Compressive Strength Water to powder ratio = 0.2 by weight
Water 1 part by volume to powder 4 parts by volume approximately

Age at Test	1 Hour	1 Day	7 Days	28 Days
	14N/mm ²	30N/mm ²	50N/mm ²	58N/mm ²

Density 2164kg/m³
Useable Life 2 to 5 minutes

STANDARDS

Construction Chemicals Rapid Water Seal has been tested in accordance with the appropriate parts of the following standard: BS 1881

PRECAUTIONS**Health and Safety**

Construction Chemicals Water Seal is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs, wash thoroughly with clean water.

Should eye contact occur, rinse immediately with plenty of clean water and seek medical advice. For full health and safety details, refer to Product Safety Data Sheet.

Fire

Construction Chemicals Water Seal is non-flammable.

YIELD

Construction Chemicals Water Seal is packed in 25kg pails and 10kg pails.

The yield obtained from these units:

25kg unit . approximately 14 litres of mixed material

STORAGE AND SHELF LIFE

Construction Chemicals Water Seal will have a shelf life of 12 months when kept in dry conditions at a temperature of 5°C to 45°C. Storage at higher temperatures and high humidity may reduce the shelf life.

PACKAGING AND ORDERING

Construction Chemicals Water Seal is supplied in 25kg drums