

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.



Water plug used as a dry powder mix, the water incoming will provide the moisture to cure the water plug. Water plug can also be pre-mixed but speed is essential.

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

Density	2164kg/m ³
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 10kg unit..

The yield obtained from these units:

10kg unit – approximately 6 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

Update 21.10.2010

PRODUCT SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name: CC Water Seal
Company: Construction Chemicals UK Ltd
Units 1 & 2a Lazarus Court, Woodgate, Rothley, Leics, LE7 7NR
Tel: 0116 2309155

2. COMPOSITION/INFORMATION OF INGREDIENTS

Products contain more than 20% cement and are classed as irritant. In addition they contain inorganic fillers and organic materials that are not classified as hazardous.

3. HAZARDS IDENTIFICATION

Irritant in contact with eyes and skin.

4. FIRST AID MEASURES

Skin contact: Wash affected area with soap and water. If discomfort occurs seek medical attention
Eye contact: Immediately rinse with copious amounts of water. If symptoms develop seek medical attention
Ingestion: Wash mouth with water. Do not induce vomiting and drink plenty of water. Seek medical attention

5. FIRE FIGHTING MEASURES

Use carbon dioxide, powder or water.

6. ACCIDENTAL RELEASE MEASURES

Collect spillage using mechanical means avoiding the production of dust.

7. HANDLING AND STORAGE

Store unopened in a dry environment. Avoid generating dust.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Avoid the production of airborne dust. Occupational exposure limits for inhalable dust 10mg/m³/8hours TWA and respirable dust 5mg/m³/8 hour TWA

Personal protection

Eyes: Wear safety goggles
Hands, face, body: Wear rubber gloves and overalls
Respiratory: Wear filter mask

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder, grey and white
Odour: None
PH: When mixed with water approximately 12.
Boiling point/
boiling point range: -
Melting point/
melting point range: -

Flashpoint (°C):	-
Flammability:	-
Autoflammability:	-
Vapour pressure:	-
Water solubility:	Slightly soluble
Relative density:	1.1 – 1.7

10. STABILITY AND REACTIVITY

Stable in storage. Decomposition products non-hazardous.

11. TOXICOLOGICAL INFORMATION

Irritant. Affects eyes, skin and mucous membranes.

12. ECOLOGICAL INFORMATION

Prevent entry into sewers, drains and watercourses.

13. DISPOSAL RECOMMENDATIONS

Dispose of in accordance with Local Authority guidelines and use disposal sites authorised to accept builders waste.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport purposes.

15. REGULATORY INFORMATION

Classified as irritant.

16. OTHER INFORMATION

The information contained herein is based on the present state of knowledge and that of our raw material suppliers. It is intended to describe the safest way of handling this product.