

# Rendercem® Qset

## Quick reacting cementitious powder for plugging water leakage



The Construction Alchemists

### Description

Rendercem® Qset is a ready to mix powder which requires only the addition of clean water at site to produce a highly consistent, quick setting mortar. It consists of a blend of cements, graded aggregates, special fillers and chemical additives which control the setting rate and minimise the risk of thermal cracking.

### Features and Benefits

- Emergency water - stopping capability
- Single component - requires only addition of water at site
- Excellent bond to the substrate
- Low exotherm minimises thermal cracking
- Pre-packed formulation to overcome variation in site batching
- Contains no chloride admixtures

### Primary Application

Rendercem® Qset can be used for the quick temporary patching and plugging of concrete segments, concrete and brick tunnel linings, sewage systems, below ground access chambers, pipes, basements, foundations and mines.

### Technical Properties

Initial set time	1 - 2 minutes at 30°C
Compressive strength	25MPa @ 28 days

### Specification Clauses

#### Water leak plugging mortar

The water leak plugging mortar shall be Rendercem® Qset, a single component cementitious product to which only the site addition of clean water shall be permitted. It must be chloride free and shall have a low exotherm to minimise thermal cracking.

### Design Criteria

Rendercem® Qset can be applied to horizontal, vertical or overhead surface at a wide range of thickness. Generally, the volume of mixed material used in a single application is restricted to that which can be applied by trowel or gloved hand. Thicker sections can be built up in layers.

### Application Instructions

#### Surface Preparation

The substrate must be free from oil, grease, loose particles, laitance or any bond breaking materials. The same shall be cleaned using wire brushing, air blowing or water jetting. Areas to be patched should be cut back to a depth of 15mm to give a good mechanical key. Avoid feather edges. Saturate the surface before application of the material.

#### Mixing

Rendercem® Qset shall be mixed with clean water at 3:1 ratio & applied on the prepared surface using a trowel or gloved hand. It is a quick set mortar, hence prepare a quantity of mortar which can be applied within the initial set time of the material.

#### Application

Trowel apply or hand-knead the mixed mortar in place, ensuring maximum contact with the substrate before the material sets. If being used to plug running water, Rendercem® Qset should be used and held in place until the initial set is reached.

#### Cleaning

Rendercem® Qset should be removed from tools, equipment and mixers with clean water prior to the initial set.

#### Estimating

#### Packaging

Rendercem® Qset is supplied in 5kg HDPE bags.

#### Limitations

Rendercem® Qset should not be used when the temperature is below 10°C and falling.

## Storage

Rendercem® Qset has a shelf life of 6 months if kept in a dry store in the original, unopened bags.

## Precautions

### Health and Safety Instructions

Rendercem® Qset contains cement powders which, when mixed or become damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - do not induce vomiting.

## Fire

Rendercem® Qset is non-flammable.



**Talrak Construction Chemicals Pvt. Ltd.**

An ISO 9001:2015 Certified Company

### Works:

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