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TECHNICAL DATA SHEET TDS31  
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## DOUBLE STRENGTH PREMIX

### DESCRIPTION

DOUBLE STRENGTH PREMIX is an extremely versatile calcium chloride based cement admixture with plasticising/accelerating properties.

### USES

DOUBLE STRENGTH PREMIX can be used with floors, floor screeds, granolithic toppings and renders in warehouses, workshops, basements, beer cellars, loading bays, power stations etc, and tanking out.

### ADVANTAGES

- \* Rapid hardens - essential in cold weather and to minimise downtime.
- \* Improves compaction and compressive strengths - gives floors a longer life and better resistance to aggressive agents.
- \* Enhances workability - allows water reduction, therefore minimises shrinkage.
- \* Waterproof Aid - Leak Sealer - essential for underground, tunnel work and rendering.

### PLEASE NOTE:

DOUBLE STRENGTH PREMIX cannot be used in mortar for structural masonry complying with BS5628 or in reinforced concrete, pre-stressed concrete and concrete containing embedded metals.

### PACKAGING

Available in 5 litre and 25 litre containers.

### TECHNICAL DATA

(Test results to BS5075 Part 1)

	Water Reduction	Stiffening Time To:		
		0.5N/mm <sup>2</sup>	3.5N/mm <sup>2</sup>	
Test Mix (inc Double Strength Premix at standard dosage)	10.1%	2.75h	3.5h	
Control Mix	-	4.5h	9.0h	
	Water Reduction	Compressive Strength N/mm <sup>2</sup>		
		24h	7day	28day
Test Mix (inc Double Strength Premix at standard dosage)	10.1%	11.2	33.3	44.2
Control Mix	-	6.9	26.2	37.9

### Toppings and Screeds:

(Average in m<sup>2</sup> per 5 litre, used at 2.5 litre / 50kg cement)

Thickness of topping in mm	12	20	25	40	50
3:1 Granolithic Mix m <sup>2</sup>	13.7	9.2	6.7	4.6	3.3
3:1 Sand/Cement Mix m <sup>2</sup>	17.1	11.3	8.4	5.6	4.2

## **COVERAGE:**

Mass Concrete: 2.5 litre per 50kg cement at thicknesses up to 150mm.

1.5 litre per 50kg cement at thicknesses over 150mm.

## **METHOD OF USE**

### **SEALOTAK\* SLURRY**

All floor toppings and renders should (unless stated otherwise) be applied to a wet slurry/bond coat consisting of two volumes of cement mixed with one volume of SEALOTAK SBR that has been well scrubbed into the prepared substrate.

\* See separate User Information Sheet

### **Floors:**

#### **Surface Preparation**

Mechanical preparation is essential to remove dirt, laitence, oil and grease and to provide a "key". Deep seated oil and grease may need hot compressed air treatment. Damp down the floor and apply SEALOTAK slurry (see above).

#### **Mixing:**

Add 2.5 litre DOUBLE STRENGTH PREMIX to 15 litre water in a separate container and mix well. Add to dry mixed cement and aggregates and mix in the usual way. (A pan or forced action mixer is recommended for best results).

Water/cement ratio should be kept as low as possible, consistent with workability and good compaction. Adjust water addition as necessary.

#### **Laying:**

- (a) Monolithic Construction:
  - \* Thickness of topping 12 - 20mm
  - \* Follow bays in structural slab.
- (b) Bonded Construction:
  - \* Thickness of topping 20 - 40mm

- \* Bay sizes - maximum width 4.5m, maximum area 25 sq m.
  - \* Length to breadth ratio should not exceed 1.5 to 1.
- (c) Unbonded Construction:
- \* Thickness of topping - minimum 75mm
  - \* Bay sizes not more than 10m<sup>2</sup>

All mixes should be well consolidated and trowelled to a smooth sealed finish. Avoid over-trowelling.

#### **Curing:**

All floors should be cured in accordance with sound concreting practice using SEALOCURE LR/B20 or polythene sheeting, or similar.

#### **Internal Renderings:**

##### **Preparation:**

Remove existing plaster or render from wall. Hack back, wash and brush down to remove loose, foreign and defective material.

##### **Suggested Mix:**

Damp down and apply SEALOTAK SBR slurry to area to be rendered. Do not prepare more than can be overcoated with new render before drying of slurry takes place.

3 parts washed sharp sand : 1 part fresh OPC.  
Gauging water to include 2.5 litre PREMIX per 50kg cement used.

## **APPLICATION**

Apply render in two 10mm coats. Allow first coat to dry thoroughly. Damp down before applying final 10mm render.

#### **External Renderings:**

##### **Preparation:**

Remove any superimposed work. Rake out brickwork or blockwork joints to approximately 12mm to form a "key". Wash and brush down to remove loose and foreign material and damp down.

If no joints are present in the substrate (ie. concrete), apply SEALOTAK slurry to bond the render.

#### **Suggested Mix:**

4 - 6 parts washed sharp sand : 1 part fresh OPC. Gauging water to include 2.5 litre PREMIX per 50kg cement used.

#### **Waterproofing Concrete:**

Incorporate DS PREMIX at the rate of use indicated above for mass concrete.

#### **Leak Sealing:**

Cut out leak or crack “dovetail” fashion.

Mix “handful” quantities of fresh cement with neat DS PREMIX to form a rapid setting putty. Using a gloved hand or a trowel, force putty into leak and hold for 45 seconds to one minute.

#### **Internal Tanking:**

A full basement “tanking out” specification is available from Sealocrete PLA Limited.

#### **Notes:**

Not recommended for reinforced or pre-stressed concrete.

Only use with ordinary or rapid hardening Portland Cement.

#### **Aggregates:**

All aggregates should pass approximate British standards. Excessive “fines” should be avoided, particularly with granolithic mixes.

#### **Curing:**

All concreting work should be well-cured, preferably with SEALOCURE LR/B20.

#### **STORAGE**

##### ***STIR BEFORE USE***

If frozen, thaw and stir well. If stored as received in closed containers in cool, dry place, the shelf life is twelve months.

#### **HANDLING**

Regarded as being a low hazard risk with very low toxicity. Frequent users should wear protection against splashes as it is possible the product may irritate. Wash off splashes with water. For further information refer to the Product Data Sheet.

*We endeavour to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, we have no control over the circumstances in which our product is used and it is therefore important that the end user satisfy himself by prior testing that the product is suitable for his specific application and that the actual conditions of use are suitable. Accordingly, no responsibility can be accepted, or any warranty given by ourselves, our representatives, agents or distributors, other than that the product as supplied by us will meet our written specification. Products are sold subject to our standard conditions of sale and each purchaser and end user should at all times ensure that he has consulted our latest product instructions and safety information.*

