

# TEKNOPAVE RC

## RAPID-SETTING REINSTATEMENT CONCRETE

### DESCRIPTION

TEKNOPAVE RC is a cementitious shrinkage compensated repair concrete designed for the reinstatement of concrete in horizontal sections, where high compressive strength is required. The mixed product may be placed in sections between 20 mm and 100 mm in one application. TEKNOPAVE RC has been specially formulated to harden rapidly without producing excessive exothermic heat which may result in cracking. The product is suitable for carrying out localized repairs to concrete pavements and for large areas of reinstatement where an early return to service is required. It's rapid strength gain, achieving in excess of 20 MPa within 2hrs, allows for the early return to service of the repaired area. TEKNOPAVE RC is chloride free, making it suitable for use in contact with steel reinforcement.

### USES

TEKNOPAVE RC is suitable for the repair of concrete pavement areas where high compressive strength and early return to service is important. Such applications include repairs to highways, bridges, airports, railways structures and other critical areas.

### ADVANTAGES

- Single component, requiring only the addition of clean water.
- Rapid setting, allowing early return to service.
- May be applied in wide range of thicknesses in single application.
- Easily applied and finished in accordance with normal concreting procedures.
- Chloride free.
- High strength.

Property	Test Method	Value
Compressive Strength @ 20°C	EN 12190	2hrs @ 27 MPa 1 day @ 35 MPa 7 days @ 45 MPa 28 days @ 56 MPa
Setting times	EN 197-1	15 to 25 mins
Density	EN 12390-7	1920kg/m <sup>3</sup>
Shrinkage		<0.001 %
Reaction to fire		Class A1

### COMPLIANCE

TEKNOPAVE RC meets the requirements of Highway Works Series 1700 for structural concrete. TEKNOPAVE RC complied with the R4 classification according to BS EN 1504-3. TEKNOPAVE RC is suitable for the following repair methods as defined in BS EN 1504.

- 3.2- Concrete restoration.
- 4.4- Structural strengthening.
- 5.3- Increasing physical resistance.
- 6.3- Resistance to chemicals.
- 7.1- Preserving or restoring passivity.
- 7.2- Preserving or restoring passivity

### PROCEDURE

**Surface Preparation:** Defective concrete should be removed by mechanical means and all loose material should be removed. All laitance and dust should be removed. The substrates should be clean and free from oil and grease. The perimeter of the repair should be cut to a depth of at least 20 mm.

**Priming:** TEKNOPAVE RC does not normally require the use of a special primer, however the substrates should be thoroughly saturated with clean water, prior to the application of the repair concrete.



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**Mixing:** TEKNOPAVE RC should be mixed with clean water in a suitable mixing vessel using a forced action paddle mixer. 3.45ltrs of clean water should be added to the mixing vessel and the powder should be slowly added whilst mixing. The concrete mix should be mixed using a slow speed paddle mixer until a uniform consistency is achieved. For cold weather working, the mixing water should be heated up to 30°C. Care should be taken to ensure that mixing of part bags is not undertaken under application.

Unopened packs will have a shelf life of 12 months.

#### HEALTH & SAFETY

See separate material safety datasheet.

**Application:** The mixed TEKNOPAVE RC should be placed immediately once mixing is complete. It is important to ensure that the initial contact coat is achieved to ensure an intimate bond between the repair and the substrate. The concrete should be worked into the surface with a stiff bristle brush before applying to the desired level. Once placed and fully compacted the concrete should be trowelled to the desired finish using a steel or wooden float.

**Curing:** TEKNOPAVE RC should be cured using CUREAID 1000 and if required covered with a polyethene sheet to protect from strong winds

#### PACKAGING & COVERAGE

**Pack Size:** 25kg Bag

**Yield:** 11ltrs per 25kg pack.

**Coverage:** A 25kg pack will cover approximately 0.22 M<sup>2</sup> at 50mm thick.

#### STORAGE & SHELF LIFE

TEKNOPAVE RC should be stored in clean dry conditions at temperatures between 8°C and 30°C.



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www.premcrete.com | 02380 276166 |  
sales@premcrete.com | 44 Macadam Way, West  
Portway, Andover, Hampshire, SP10 3XW

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