

## SOPRA REPAIR RSC

### Description

**SOPRA REPAIR RSC** is a fast-setting concrete repair material that is mixture of cement, graded fine/coarse aggregates and special additive that when mixed with water would produce a high quality concrete material that is ideal for high early strength, wide and thick repairs for concrete that allows traffic weights within few hours.

### Recommended Uses

**SOPRA REPAIR RSC** can be used in the following applications:

- Structural repairing
- On grade, above and below grade
- Interior and exterior application
- Industrial flooring
- Parking & Runway bays
- Piers and water structures

### Features and benefits

- Easy to use (ready to used bags)
- Non-shrinkage properties in plastic and cured state
- High early strength for rapid installation
- Good adhesion bond to concrete,
- Chloride free
- Resistance to grease and oil
- Durable, uniform dense structure
- Application between 15-55 cm thick

### Standard Compliance

**SOPRA REPAIR RSC** complies with the following standards:

- In accordance with ASTM: C928, C387

### Packaging

**SOPRA REPAIR RSC** is available in 25kg moisture resistance bags.

### Storage

**SOPRA REPAIR RSC** has a shelf life of 12 months. Store away from direct sunlight, protected from rainfall.

### Properties

<b>Appearance</b>	Dark Grey
<b>Wet density</b>	2400 kg/m <sup>3</sup>
<b>Coverage</b>	0.017 m <sup>3</sup> per 25kg

### Technical Information

**SOPRA REPAIR RSC** was tested in accordance to BS EN 191-1 (method of testing cement).

Compressive strength @ 25°C (N/mm <sup>2</sup> )	
Age	Strength
1 hour	26
7 days	53
28 days	67

Complies with BS EN Class R4 & ASTM C-942

Flexural strength @ 25°C (N/mm <sup>2</sup> )	
Age	Strength
1 day	3.3
7 days	7.2
28 days	7.7

Complies with BS EN 196 & ASTM C-293

### Application Instructions

#### a) Surface preparation

The concrete surface should be free of frost, curing membranes, oil stains, grease, paint and dust. The surface in which **SOPRA REPAIR RSC** should be chipped and water leakage should be drained and plugged before application. The area in which it will be grouted should be soaked with water a couple of times 24 hours prior to grouting to minimize absorption and to assist in the free flow of the grout. The surface should be damp but free of standing water.

## b) Mixing

First place the water in a clean drum. Slowly add complete bag of **SOPRA REPAIR RSC** into the water and continuously mix for 2-4 minutes depending on mixing method to achieve a smooth, uniform and lump free consistency. Recommended mixing method is using a low speed drill. Dependent on the desired consistency and flow properties, the mixing ratio can be adjusted. It is recommended that a trial mix should be always done to determine the correct water content.

## c) Application

**SOPRA REPAIR RSC** may be troweled, floated or broom finished. For ground application the mortar should be installed in full depth to minimize air bubbles. Compact the mortar to ensure maximum substrate adhesion and density.

## d) CLEANING OF TOOLS

Tools and application equipment should be cleaned with water immediately after use. Hardened material can only be mechanically removed.

## Precautions

**SOPRA REPAIR RSC** is non-hazardous material. It should not be swallowed or come in direct contact with skin or eyes. Suitable protective glasses and gloves should be worn during application.

In the case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice if irritation occurs. When contact with skin occurs, wash of immediately with clean water and soap. If swallowed, seek medical emergency immediately, do not induce vomiting.

## Technical Support

**Sopra** provides on-site assistance and consultation services on projects if required. Technical Datasheets on other **Sopra** products and guidance on their use are available on request or on our website.

## Warranty

The information relating to the application and end-use of **Sopra** products, are provided in good faith based on **Sopra's** current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with **Sopra** recommendations. In practice, the differences in substrates and actual site conditions are such that no warranty in respect of sale for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must do their test to insure that the product is suitability for the intended application and purpose. The company reserves the right to change the properties of its products without prior notice.