

SOPRA REPAIR RS

Description

SOPRA REPAIR RS is a fast-setting, multipurpose repair material, containing a blend of hydraulic cement, graded aggregates and special additive that when mixed with water would produce a high quality mortar material that is ideal for high early strength, high durability and low shrinkage are desired. **SOPRA REPAIR RS** allows traffic weights within 2 hours.

Recommended Uses

SOPRA REPAIR RS can be used in the following applications:

- General purpose repair mortar
- Column and machinery base plates
- Anchoring bolts, reinforcing bars & bearing plates
- Structural repairing
- Filling voids, cavities and gaps
- On grade, above and below grade
- Interior and exterior application
- Industrial flooring
- Parking & Runway repairs

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, brick and wood
- Chloride free
- Resistance to grease and oil
- Durable, uniform dense structure
- Applied in a thickness ranging from 1-13 cm

Standard Compliance

SOPRA REPAIR RS complies with the following standards:

- In accordance with ASTM: C928, C387 & ASTM 191.
- Meets the requirements for Class R4 of BS EN 1504-3 and BS EN1504-6.

Packaging

SOPRA REPAIR RS is available in 25kg moisture resistance bags.

Storage

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

Properties

| | |
|-------------|-------------------------------|
| Appearance | Grey powder |
| Wet density | 2250 kg/m ³ |
| Coverage | 0.015 m ³ per 25kg |

Technical Information

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

| Compressive strength @ 25°C (N/mm ²) | | |
|--|---------|----------|
| Age | Plastic | Flowable |
| 1 hour | 23 | 19 |
| 7 days | 41 | 36 |
| 28 days | 50 | 46 |

Complies BS EN Class R4 & ASTM C-942

| Flexural strength @ 25°C (N/mm ²) | | |
|---|---------|----------|
| Age | Plastic | Flowable |
| 1 day | 2.9 | 2.1 |
| 7 days | 6.1 | 4.5 |
| 28 days | 6.8 | 5.7 |

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 RS** 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 RS** 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. The appropriate quantity of water required to mix a 25kg bag should be measured to achieve the desired consistency, use the table below to achieve the right consistency.

| Water addition per 25kg bag @ 25°C | | |
|------------------------------------|---------|----------|
| Consistency | Plastic | Flowable |
| Liters | 3 | 3.75 |

It is recommended that a trial mix should be always done to determine the correct water content.

c) Application

SOPRA REPAIR RS 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 RS 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 off 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.