

## SOPRA ANCHOR 1000

### Description

**SOPRA ANCHOR 1000** is a three component, high strength, free flowing, epoxy resin grout. **SOPRA ANCHOR 1000** is suitable for grouting gaps with thicknesses between 10 – 150 mm at ambient temperatures between 10 - 40°C.

### Recommended Uses

**SOPRA ANCHOR 1000** is ideally designed for use in the following applications:

- Machine base plates.
- Heavy crane rails.
- Pile top waterproofing.
- Bearing plinths.
- Rebar Anchoring.
- Grouting areas where occasional chemical spillage may occur.

### Features and benefits

- Resistant to dynamic loading.
- Non-shrink and low creep characteristics under continuous loading.
- Exceptionally high compressive, flexural and tensile strengths.
- Extremely dense.
- Exceptional bond to concrete and steel surfaces.
- Good chemical resistance.
- High early strength development allowing for rapid installation.

### Standards Compliance

**SOPRA ANCHOR 1000** satisfies the requirements of BS-EN 447 and ASTM C 1181.

### Packaging

**SOPRA ANCHOR 1000** is available in 3 kg Pail.

### Storage

**SOPRA ANCHOR 1000** has a shelf life of 12 months. Store in temperatures between 10-40 °C.

### Product data

<b>SOPRA ANCHOR 1000</b>	
Compressive strength: BS 6319, Part 2 : 1983	≥ 100 MPa @ 7 days
Flexural strength: BS 6319, Part 3 : 1990	≥ 28 MPa @ 7 days
Fresh wet density:	2.00 ± 0.05 g/cm
Tensile strength: BS 6319, Part 7 : 1985	≥ 15 MPa @ 7 days
Recommended working ambient temperature:	10 - 40°C
Crack forma on @ 150mm and 40°C:	No cracks or bleeding
Peak exothermic temperature @ 40°C: ASTM D2471	50°C
Peak exothermic@ 40°C: ASTM D2471	40 min
Water absorption: ASTM C413	< 0.15%
Working life:	80 - 100 min @ 25°C 40 - 60 min @ 35°C
VOC: ASTM D2369	< 10 g/ltr (complies with LEED)

### Application Instructions

#### a) Surface preparation

The Substrate should be sound, clean and free from contamination. Surface laitance should be removed by scabbling or grit blasting.

Steel surfaces should be grit blasted to remove all rust and scale.

Concrete surfaces should be dry.

Holes drilled for anchor bolts should be thoroughly cleaned from dust and loose debris using suitable brush or compressed air.

## b) Mix

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

The ensure content of the Hardener pack should be added to the Base pack. Care should be taken to ensure that the bottom and the product sides are thoroughly scraped and used. Mix the two components for 2 minutes. The filler should be gradually added while mixing. Mixing should continue for 3 minutes or until a uniform consistency obtained.

## c) Application

### *Under Base plate:*

Enough materials should be available to achieve continuous fill and to complete the work. Pouring of the mixed grout should be started from one side only to avoid air entrapment.

To obtain maximum flow distance, a side shutter feed 100 mm height should be erected and used to build the required head. At 100 mm of head, a flow distance of 1250 mm and 2100 mm can be achieved at gap thicknesses of 40 mm to 75 mm respectively @ 35°C ambient temperatures.

### *Formwork:*

As the mixed grout possesses high fluid characteristics, all formwork and shutters should be water tight. This can be achieved by sealing underneath the formwork and at the joints by using appropriate mastic.

### *Notes:*

- If application is done under high temperatures, care should be done because the working me will be reduced significantly.
- To reduce the affect of this problem, try to store the unmixed materials in a cool environment, avoiding the direct sunlight. Also, try not to make the application in the middle of the day or direct sunlight.

## 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 ANCHOR 1000** 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.