

SOPRA Grout NS

General Purpose, Pre-mixed, Non-shrink Grout

Description

SOPRA Grout NS is a cementitious, thixotropic, normal setting and shrinkage compensating pumpable grout.

Uses

- * Filling and caulking.
- * Anchoring of steel work in stone and concrete.
- * Fixing of machinery and bedding plates.
- * Grouting of rock bolts in stone.
- * Fixing, jointing and anchoring of precast concrete.

Advantages

- * Ease of application.
- * High compressive strength.
- * Chloride free.
- * High bond strength to steel, concrete and bricks.

Standards Compliance

ASTM C 191-92
ASTM C 827-87
BS 4550
BS 5383

Packaging

25 kg bags.

Storage

12 months storage life when stored in original unopened bags at between 2 and 35 °C in a dry and shaded place.

Properties

Appearance	Grey powder
Fresh wet density (kg/m ³)	2250
Setting time @ 25°C, hr	
Fluid, Initial	>1.0
Fluid, Final	>7.0
Coverage, kg /m ² / mm	2.5

Compressive Strength @ 25°C, N/mm²

Age	Trowellable	Fluid
1 day	39.1	28
3 days	57.7	40.7
7 days	69.8	50.3
28 days	80.1	57.9

Flexural Strength @ 25°C, N/mm²

Age	Trowellable	Fluid
1 day	4	2.2
3 days	5.5	3.5
7 days	6.4	5.9
28 days	7.5	6.8

Application Instructions

Surface preparation

The surfaces to be grouted with SOPRA Grout NS should be clean and free from all contaminants such as oil, grease, laitance, paint, or corrosion products. Any contamination should be removed by mechanical means to produce a sound substrate.

The bond surfaces should be kept wet for at least 24 hours prior to grout application.

Mixing

Mix SOPRA Grout NS with 3.5 to 4 litres of water per 25 kg bag to obtain the required consistency.

Application

SOPRA Grout NS should be applied within one hour of mixing. For horizontal application, it should be poured continuously and formwork should be tamped gently. For vertical application such as boreholes, the grout should be injected starting from the top and should continue until the borehole is full. The entrance should then be plugged. Keep surface exposed to the atmosphere, moisten or apply a curing compound to prevent evaporation or cracking. SOPRA Grout NS must not be vibrated.

SOPRA Grout NS may be placed in thicknesses of up to 100 mm in a single pour. For sections thicker than 100 mm, it is necessary to fill SOPRA Grout NS with graded 10 mm silt free aggregate. The quantity of aggregate should not exceed one part of aggregate to 2.5 parts of SOPRA Grout NS by weight. A conventional concrete mixer and pump should be used.

Cleaning

Tools contaminated with SOPRA Grout NS can be cleaned using clean water. Hardened grout can only be removed by mechanical means.

Precautions

Health and Safety

SOPRA Grout NS is non-hazardous. However, it should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles should be worn. Splashes on the skin should be removed with water. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

Technical Support

SOPRA provides on-site assistance and consulting services on projects when requested. Technical data sheets on other SOPRA products and guidance on their use are available on request.

Warranty

SOPRA products are guaranteed against defective materials and manufacture and sold subject to SOPRA standard terms and conditions of sale. Whilst SOPRA endeavours to ensure that any advice, information or recommendation given is correct, the company can not accept any liability either directly or indirectly arising from the use of its products, since the company has no control over the application of its products. Information contained in this document is given on the best current knowledge. SOPRA policy is one of continuous improvement and the company reserves the right to change the company products without prior notice.