

SOPRA Bond Acrylic

Bonding Agent and Cement Mortar Modifier

Description

SOPRA Bond Acrylic is a fine particle size acrylic polymer emulsion of medium viscosity. It is designed for use in the building industry as a bonding agent for cementitious mix and to enhance its waterproofing properties.

Uses

- * Adhesive for a wide variety of substrates, including concrete, masonry brick, glass, metal, wood, etc.
- * Bonding agent for cement screed, render, plaster and concrete.
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- * Bonding for thin floor topping.
- * Sealing coat.
- * Primer for all cement based repair products.
- * Adhesion promoter and sealing agent for laying screeds of all kinds.

Advantages

- * Provides excellent bonding to concrete, masonry, brick, plaster, and wood.
- * Provides excellent water resistance and abrasion resistance.
- * Provides long term durability on exterior exposure.
- * Provides superior freeze/thaw resistance.
- * Provides good mechanical strength tensile strength, flexural strength and impact strength.
- * Provides good chemical resistance.

Standards Compliance

BS 6319
ASTM C 348

Packaging

5 ltr can
20 ltr pail
210 ltr drum

Storage

12 months storage life when stored in original containers at between 5 and 35 °C.

Properties

Appearance	Milky white liquid
Specific gravity @ 25°C,	1.03
Solids content, %	46
pH	8-9
Coverage, m ² /l	7-9

Mechanical Properties Improvement

Property	Mechanical Strengths N/mm ²	
	Control	With SOPRA Bond Acrylic
Compressive Strength	33	40
Tensile Strength	3.08	4.3
Flexural Strength	8.2	11
Adhesion to concrete	4.5	20

Application Instructions

Surface preparation

The surface must be clean, sound and free from any loose material or dust. All surfaces to be treated should be thoroughly washed with clean water.

Mortar Additive

SOPRA Bond Acrylic can be added to the plain cement-sand-water mortar to enhance the tensile strength. The usual addition rate of **SOPRA** Bond Acrylic is 20-25 % by weight of cement. The modified mortar can be used for both interior and exterior purposes.

Flooring

SOPRA Bond Acrylic is used in industrial flooring applications in proportions of 5-35% by weight, relative to the weight of cement. It improves flexural strength, adhesion, abrasion resistance and impact resistance. It is used as an oil impermeable coating with high water resistance.

Typical Mix Design

Repair mortars and renders

Cement	50 kg
Sand	150 kg
SOPRA Bond Acrylic	10 litres

@ 20% by weight of cement

Water to be added to give required consistency.

Precautions

Health and Safety

SOPRA Bond Acrylic is non-hazardous. However, it should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective goggles and gloves should be worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin is made, wash off immediately with soap and water. 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 its products without prior notice.