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SOPRA Axel CF

High Performance Chloride-Free Accelerator

Description

SOPRA Axel CF is a high performance Appearance chloride-free setting and accelerator providing early mechanical strength. In wet concrete, SOPRA Axel CF improves resistance to frost attack and Chloride content accelerates the setting time. Early strength is BS 5075 significantly increased at all temperatures for Flammability hardened concrete.

Uses

- Concreting at low temperatures.
- Enables mould release before full setting for precast non-slump concrete.
- Suitable for reinforced and prestressed concrete.

Advantages

- Compatible with all types of cement and cements containing clinker, blast furnace slag or micro silica.
- Increases ultimate strength.
- Saves up to 15 % of cement due to highly improved hydration process.
- Enables earlier stripping of formwork.

Standards Compliance ASTM C 494 Type C & F

Packaging

210 litre drums or 1000 litre containers. Tanker loads are also available.

Storage

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

Properties

Pale yellow liquid hardening Specific gravity Typically 1.12 @ 25 °C pH 11 +/- 0.5

Nil

Non-flammable

Performance Guidelines

Dosage,I/100kg cement	0	1.3	2.0
Setting time @ 5 °C, hr			
Initial Final	10.0 16.5	6.5 10.5	4.5 9.0
Setting time @ 10 °C, hr			
Initial Final	5.5 10.5	5.0 7.5	3.5 6.5
Setting time @ 25 °C, hr			
Initial	3.5	2.5	2.0
Final	6.5	5.0	4.5

Compressive Strength, N/mm2 of 1:3 Mortar @ W/C 0.47

1 day	10.6	13.1	16.2
3 days	18.0	24.4	28.7
7 days	32.1	33.9	36.2
28 days	36.1	38.7	40.2

Application Instructions

Dispensing

The correct quantity of SOPRA Axel CF should be measured by using a recommended It should be added to the dispenser. concrete with the mixing water.





Dosage

The normal dosing range is 0.6-2.5 litres per SOPRA provides on-site 100 kg of cement, including any cement replacement material. The optimum dosage of SOPRA Axel CF and the time before formwork removal for specific requirements should be determined by trials using the materials and conditions as encountered on-site.

Overdosing

Exceeding the recommended amounts will result in significant reductions in setting time and with large volumes, an early heat evolution. However, provided that adequate curing measures are taken, the ultimate strength of the concrete will not be impaired.

Normal curing methods to protect concrete surfaces should be adopted.

Cleaning and Disposal

Spillages of SOPRA Axel CF should be hosed down with large quantities of water or absorbed onto fine sand and disposed of in accordance with local legislation.

Precautions

Health and Safety

SOPRA Axel CF is slightly alkaline but non-hazardous. 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

assistance consulting services on projects when requested. Technical data sheets on other SOPRAproducts 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, company can not accept any liability either directly or indirectly arising from 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 with out prior notice.