



PLASTICON 530

PRODUCT CODE : 123

HIGH PERFORMANCE SUPERPLASTICISING ADMIXTURE

Uses

- To provide excellent acceleration of strength gain at early ages and major increases in strength at all ages by significantly reducing water demand in a concrete mix.
- Particularly suitable for precast concrete and other high early strength requirements.
- To significantly improve the workability of site mixed and precast concrete without increasing water demand.
- To provide improved durability by increasing ultimate strengths and reducing concrete permeability.

Advantages

- Major increases in strength at early ages without increased cement contents are of particular benefit in precast concrete, allowing earlier stripping times.
- Makes possible major reductions in water : cement ratio which allow the production of high strength concrete without excessive cement contents.
- Use in production of flowing concrete permits easier construction with quicker placing and compaction and reduced labour costs without increasing water content.
- Increased workability levels are maintained for longer than with ordinary sulphonated melamine admixtures.
- Improved cohesion and particle dispersion minimises segregation and bleeding and improves pumpability.
- Chloride free, safe for use in prestressed and reinforced concrete.

Standards

ROKSO PLASTICON 530 confirms with BS 5075, BS:EN 934-2 and with ASTM C494 as Type A and Type F, Depending on dosage used

Description

- **ROKSO PLASTICON 530** is a chloride free, superplasticising admixture based on selected sulphonated naphthalene polymers. It is supplied as a brown solution which instantly disperses in water.
- **ROKSO PLASTICON 530** disperses the fine particles in the concrete mix, enabling the water content of the concrete to perform more effectively. The very high levels of water reduction possible allow major increases in strength to be obtained.

Technical support

ROKSO provides a technical advisory service for on-site assistance and advice on admixture selection, valuation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

Typical Dosage

The optimum dosage of **ROKSO PLASTICON 530** to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use.

For high strength, water reduced concrete the normal dosage range is from 1.20 to 5.50 Kgs/100 kg of cementitious material, including PFA, GGBFS and microsilica.

For high workability concrete the normal dosage range is from 1.25 to 2.30 Kgs/100 kg of cementitious material.

Use at other dosages

Dosages outside the typical ranges quoted above can be used to meet particular requirements. Contact **ROKSO** for further Guidance

Effects of overdosing

An overdose of double the amount of **ROKSO PLASTICON 530** will result in an increase in retardation as compared to That normally obtained. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased. The effects of overdosing will be further increased if sulphate resisting cement or cement replacement materials are used.

Typical Properties

Appearance:	Brownish liquid
Specific gravity:	1.18 @ 25°C
Chloride content :	Nil to BS 5075 / BS:EN934
Air entrainment:	Less than 2% additional air is entrained at normal dosages.

Instructions for use

Mix design

Where the main requirement is to improve strengths, initial trials should be made with normal concrete mix designs. The addition of the admixture will allow the removal of water from the mix whilst maintaining workability. After initial trials, minor modifications to the overall mix design may be made to optimise performance.

Where the main requirement is to provide high workability concrete, the mix design should be one suitable for use as a pump mix.

Compatibility

All admixtures should be added to the concrete separately and must not be premixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by trial mixes.

- **ROKSO PLASTICON 530** is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and microsilica.
- The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times.
- **ROKSO PLASTICON 530** may also be added to concrete direct into a readymix truck. Full blending of the admixture and the concrete should be ensured by mixing at high speed for a period of at least two minutes.

Packing

ROKSO PLASTICON 530 is available in 250 Kgs HDPE drum and any customer specified packing can be considered upon request

Storage

ROKSO PLASTICON 530 has a shelf life of 12 months from the date of manufacturing

Manufactured in INDIA by
ROKSO INDIA PRIVATE LIMITED

AN ISO 9001 : 2008 CERTIFIED COMPANY

ADMN.OFFICE: 605 ,SAI JANAK CLASSIC,ABOVE MURLIDHAR SWEETS, NEAR FLYOVER BRIDGE, DEVIDAS LANE, BORIVALI (W) MUMBAI-92
REGD OFFICE : 202,MADHUVAN,SHRI KRISHNA COMPLEX,NR.SHRIRAM NAGAR,VIVA COLLEGE RD,VIRAR(WEST) DI :PALGHAR -401303 MS
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