



ROKSO HYPOCON GPC

PRODUCT CODE : 135

Retarding superplasticiser based on PCE

DESCRIPTION

ROKSO HYPOCON GPC is an economical admixture based on modified polycarboxylic ether. The product has been primarily developed for applications in ready mix concrete as well as site-batched concrete. **ROKSO HYPOCON GPC** is specially designed to allow considerable reduction of water cement ratio while maintaining control on extend of set retardation. **ROKSO HYPOCON GPC** is free of chloride & low alkali. It is compatible with all types of cements.

RECOMMENDED USES-

- Ready mixed concrete
- Long-distance transporting
- Pumped concrete
- High workability without segregation or bleeding
- High performance concrete for durability
- Congested/complex reinforced sections

FEATURES AND BENEFITS-

- Good dispersion even in mixes with high fines
- High workability for longer periods
- Lower pumping pressure
- Resistance to segregation even at high workability
- Extended setting with longer workability
- Reduced water content for a given workability
- Higher ultimate strengths
- Increased ease in finishing concrete

Technical Data-

Aspect Relative	Light brown liquid
Density	1.05 ± 0.02 at 25°C
pH	>6
Chloride ion content	< 0.2%

TEST CERTIFICATION/APPROVALS-

- ASTM C494 Types A, D &G
- EN 934-2 T3.1/3.2
- IS 9103

DOSAGE-

Optimum dosage of **ROKSO HYPOCON GPC** should be determined with trial mixes. As a guide, a dosage range of 0.4 to 1.8 % by the weight of cement is normally recommended. Because of variations in concrete materials, job site conditions, and/or applications, dosages outside of the recommended range may be required. In such cases, contact your local ROKSO representative. For addition information on **ROKSO HYPOCON GPC** admixture or on its use in developing concrete mixes with special performance characteristics, contact your local ROKSO representative.

Effects of over dosage

-A severe over-dosage of **ROKSO HYPOCON GPC** can result in the following:

- Reduced permeability
- Long extension of initial and final set
- Increase in air entrainment
- Bleed/segregation of mix, quick loss of workability
- Increased plastic shrinkage

A slight overdosing may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured. Due allowance should be made for the effect of fluid concrete pressure on form work, and stripping times should be monitored. In the event of over dosage, consult your local ROKSO representative immediately.

APPLICATION-

ROKSO HYPOCON GPC is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising effect and water reduction are higher if the admixture is added to the damp concrete after 50 to 70% of the mixing water has been added. The addition of **ROKSO HYPOCON GPC** to dry aggregate or cement is not recommended. Automatic dispensers are available. Thorough mixing is essential and a minimum mixing cycle, after the addition of the **ROKSO HYPOCON GPC**, of 2-3 Min for forced action mixers is recommended.

CORROSIVITY -

NON CORROSIVE **ROKSO HYPOCON GPC** admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or concrete placed on galvanized steel floor and roof systems. Neither calcium chloride nor any calcium chloride-based ingredients are used in the manufacture of **ROKSO HYPOCON GPC** admixture. In all concrete application, **ROKSO HYPOCON GPC** admixture will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.

WORKABILITY-

ROKSO HYPOCON GPC ensures that rheoplastic concrete remains workable in excess of 90 minutes at +25°C. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

PACKAGING

ROKSO HYPOCON GPC is supplied in 250 kgs drums or in bulk on request.

STORAGE /SHELF LIFE-

ROKSO HYPOCON GPC must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature. Shelf life is 12 months when stored as above. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your local ROKSO representative.

PRECAUTIONS -

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on ROKSO construction chemicals web site.

Manufactured in INDIA by

ROKSO INDIA PRIVATE LIMITED

AN ISO 9001 : 2015 CERTIFIED COMPANY

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The data & guidelines provided hereabove is based on compiled information which we believe reliable. Users are requested to test all the applications independently before commercial use. This data & informations are non binding & we donot assure any liability for failure of any guidelines or performance of the product as correct identification of the problem, quality of the other materials & on-site workmanship are factors beyond our control.