



ROKSO UV 4951

PRODUCT CODE : 117

HIGH RANGE WATER REDUCING AND RETARDING SUPERPLASTICISER FOR CONCRETE

ROKSO UV 4951 is a superplasticising admixture to produce flowable or pumpable concrete for Higher grades, without bleeding and segregation when added to the concrete mix having slump of at least 25mm without admixture.

ROKSO UV 4951 is formulated from synthetic polymers specially designed to impart the cohesiveness to the concrete mix for easy pumping and placing. It considerably improves the properties of fresh and hardened concrete.

AREA OF APPLICATION:

- Ready Mix Concrete upto grades of M50
- High Ultimate Strength Concrete
- Precast / Pre-stressed Concrete
- Casting in hot climates
- Pumped concrete

PRIMARY USES TO OBTAIN:

- High workability for longer period
- Higher early & ultimate strengths
- With congested reinforcement
- Increases durability & impermeability
- Lower pumping pressure

STANDARDS:

ASTM C 494 – Type G IS 9103: 1999

METHOD OF APPLICATION:

Add 70-80% water to the concrete based on Mix Design by weight. The correct quantity of **ROKSO UV 4951** should be measured with recommended dispenser and should be added to the concrete with remaining mixing water. Allow to mix it for recommended mixing time. The addition of **ROKSO UV 4951** to dry mixes or cement is not recommended.

DOSAGE:

As a starting point, a dosage range of 0.7kg to 1.2kg per 100kg of cementitious materials is recommended. Optimum dosage of **ROKSO UV 4951** should be determined in trial mixes. Please consult ROKSO INDIA Pvt. Ltd. Technical staff for further information.

COMPATIBILITY:

ROKSO UV 4951 is compatible with all types of cements and most Air Entraining Agents meeting the ASTM standards & Integral Waterproofing Compound which complies with IS 2645- 1978. The addition of **ROKSO UV 4951** and **ROKSO AIRENTA** (Air Entraining Agents) to concrete is recommended where it is required to withstand freezing and thawing cycles. If more than one admixture is to be used in concrete, they must be dispensed separately.

WORKABILITY:

ROKSO UV 4951 ensures that concrete remains workable in excess of 3 hours at 20°C. Workability loss is dependent on temperature, type of cement, nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot and dry climates.

TECHNICAL PROPERTIES:

Appearance	Brown flowing liquid
Base material	Sulphonated Naphthalene Formaldehyde
Specific Gravity @30°C	1.255 ± 0.020
Chloride content	Nil
pH	Min. 6

ROKSO UV 4951 is a chloride free product. The shelf life of the product is 1 year when stored as recommended.

STORAGE:

ROKSO UV 4951 must be stored at above 5°C temperature. If the product has frozen, thaw at room temperature and agitate to completely reconstitute it in original form. Store under cover, protect it from direct sunlight. Failure to comply with recommended storage condition may result in premature deterioration of the product or packaging.

EFFECTS OF OVER-DOSAGE:

A severe over-dosage of **ROKSO UV 4951** will result in the following:

- Retardation of Setting Time
- Increase in workability / segregation
- Slight increase in air entrainment

PACKAGING:

ROKSO UV 4951 is available in 250 / 280 kg drums and in tanker (9.5 / 15 MT).

SAFETY PRECAUTIONS:

ROKSO UV 4951 is a non-toxic and inflammable. When in contact with the skin, it should be washed with cold water.



**Manufactured in INDIA by
ROKSO INDIA PRIVATE LIMITED**

AN ISO 9001 : 2008 CERTIFIED COMPANY

**ADMN.OFFICE: 602, SAI JANAK CLASSIC, DEVIDAS LANE, NEAR FLY OVER BRIDGE, ABOVE MURLIDHAR SWEETS, BORIVALI (W)MUMBA- 92
REGD OFFICE : 202,MADHUVAN,SHRI KRISHNA COMPLEX,NR.SHRIRAM NAGAR,VIVA COLLEGE RD,VIRAR(WEST) DI :PALGHAR -401303 MS
E-MAIL : info@roksoindia.com / WEB SITE : www.roksoindia.com**

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.