



# ROKSO UV 9341

## PRODUCT CODE : 116

### SUPERPLASTICISER FOR PQC GRADE CONCRETE BASED ON POLY-CARBOXYLIC ETHER

**ROKSO UV 9341** is a superplasticising admixture to produce PQC Grade concrete where the cohesive, workable and pumpable concrete is required.

#### AREA OF APPLICATION:

- Ready Mix Concrete for PQC grades
- Site Mixed Concrete
- Regular Strength Concrete upto M45
- Suitable for crushed sand concrete
- Pumped concrete

#### PRIMARY USES TO OBTAIN :

- Good dispersion resulting in High workability & superb slump retention.
- Improves cohesiveness & pumpability.
- Increases early & ultimate strengths
- Increases Flexural strength & E-modulus
- Can be placed and compacted in congested reinforcements without vibration & improves surface finish.
- Increases durability & impermeability
- Ideal for use in low fines, crushed sand concrete mixes.

#### STANDARDS:

ASTM C 494 – Type G IS 9103 : 1999

#### METHOD OF APPLICATION:

Add 80 -90% water to the concrete based on Mix Design by weight. The correct quantity of **ROKSO UV 9341** 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 9341** to dry mixes or cement is not recommended. Thorough mixing is essential and after addition of **ROKSO UV 9341**, minimum mixing cycle of 60 seconds for forced action mixers is recommended.

#### DOSAGE:

As a starting point, a dosage range of 0.5 kg to 1.2 kg per 100kg of cementitious materials is recommended. Optimum dosage of **ROKSO UV 9341** should be determined initial mixes. Please consult ROKSO Technical staff for further information.

#### COMPATIBILITY:

**ROKSO UV 9341** is compatible with all types of cements and **ROKSO RETARDO** series of products. If more than one admixture is to be used in concrete, they must be dispensed separately and prior confirmation of compatibility.

#### ROKSO UV 9341 is suitable for mixes containing:

- Micro-silica
- Pulverised Fly Ash
- Ground Granulated Blast Furnace Slag

#### WORKABILITY:

**ROKSO UV 9341** 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	Light Brown Liquid
Base material	modified Poly-carboxylic Ether
Specific Gravity @ 25°C	1.108 + 0.020
Chloride content	Maximum 0.2%
pH	Minimum 6

### Mechanism of action:

Conventional Superplasticiser, based on Sulphonated Naphthalene or Melamine Formaldehyde condensates, at the time of mixing getting absorbed onto the surface of cement particles. This absorption takes place at very early stage in the hydration process. The sulphonic groups of the polymer chains increase the negative charges on the surface of the cement particle and the dispersion of the cement occurs by Electrostatic Repulsion.

**ROKSO UV 9341** is differentiated from conventional superplasticisers in that it is based on unique carboxylic ether polymer with long lateral chains. This greatly improves the cement dispersion. At the start of the mixing process the same electrostatic dispersion takes place as described above; but the presence of the lateral chains, linked to the polymer backbone, generate a Steric Hindrance which stabilizes the cement particles capacity to separate & disperse. This mechanism provides fluid concrete with greatly reduced water demand with longer retention.

The shelf life of the product is 12 months when stored as recommended.

### PACKAGING:

**ROKSO UV 9341** is available in 250 kg drum and in tanker on demand.

Manufactured in INDIA by

**ROKSO INDIA PRIVATE LIMITED**

AN ISO 9001 : 2015 CERTIFIED COMPANY

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