



# EUCON 450

## HIGH RANGE WATER REDUCING RETARDING ADMIXTURE

**EUCLID CHEMICAL**

### DESCRIPTION

EUCON 450 is a high range water reducing admixture formulated specifically to extend the working time of flowing concrete at high temperatures. EUCON 450 does not contain calcium chloride or any other ingredients that would promote the corrosion of steel.

### PRIMARY APPLICATIONS

- Self-consolidating
- Reinforced concrete
- High strength concrete
- Industrial slabs
- Lightweight concrete
- Prestressed concrete
- Parking structures
- Watertight concrete

### FEATURES/BENEFITS

- Produces "flowing" concrete with controlled delay of slump loss and workability.
- Greatly reduces water requirements.
- Reduces segregation and bleeding in the plastic concrete.
- Reduces cracking and permeability of hardened concrete.
- When used to produce "flowing" concrete, significantly reduces concrete placement time and cost.

### TECHNICAL INFORMATION

PROPERTY	VALUE
Physical State	Dark Brown Liquid
Base Material	Sulphonated naphthalene formaldehyde condensates
Specific gravity	1.21 ± 0.02 @27°C
pH	Minimum. 6
Air entrainment	1.5% over control mix
Chloride content	< 0.2 %

Compatible with all cement types like OPC, OPC + Fly ash, PSC etc.,

### PACKAGING / YIELD

EUCON 450 is packaged in bulk 250 kg HDPE drums.

### SHELF LIFE

1 year in original, unopened container.

### SPECIFICATIONS/COMPLIANCES

EUCON 450 meets or exceeds the following requirements:

- ASTM C 494, Type G
- AASHTO M 194
- IS9103/2007

## DIRECTIONS FOR USE

- Normal Dosage ranges -200 ml - 600 ml /50 kg of cement.
- However the optimum dosage is determined by site trails.
- Eucon 450 should be added to the initial batch water of the concrete mixture. Do not dispense into dry cement.
- Overdosing leads to retardation of setting times of concrete, mix may segregate and bleeding of concrete.

## PRECAUTIONS/LIMITATIONS

- Care should be taken to maintain Eucon 450 above freezing. However freezing and subsequent thawing will not harm the material if thoroughly agitated.
- In all the cases refer safety datasheet before use.