

# CAC-Superflow 40 (PQC)

## High Range Water Reducing for Pavement Quality Concrete

**CAC-Superflow 40(PQC)** is a superplasticising admixture to produce flowable or pumpable concrete for PQC grades, without bleeding and segregation when added to the concrete mix having slump of at least 25mm without admixture.

**CAC-Superflow 40 (PQC)** 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:

Site Mixed & Ready Mix Concrete  
Pavement Quality Concrete  
High Performance Concrete  
Pre-stressed Concrete  
Concrete for precast slabs  
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 **CAC-Superflow 40 (PQC)** 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 **CAC-Superflow 40 (PQC)** to dry mixes or cement is not recommended.

### DOSAGE:

As a starting point, a dosage range of 0.5kg to 2.0kg per 100kg of cementitious materials is recommended. Optimum dosage of **CAC-Superflow 40 (PQC)** should be determined in trial mixes. Please consult CAC Pvt. Ltd. Technical staff for further information.

### COMPATIBILITY:

**CAC-Superflow 40 (PQC)** 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 **CAC-Superflow 40 (PQC)** and **CAC-AEA** (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:

**CAC-Superflow 40 (PQC)** ensures that concrete remains workable in excess of 3 hours at 25<sup>0</sup>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.

# CAC-Superflow 40 (PQC)

## TECHNICAL PROPERTIES:

Appearance	Brown flowing liquid
Base material	Sulphonated Naphthalene Formaldehyde
Specific Gravity @25°C	1.230 ± 0.020
Chloride content	Max. 0.2%
pH	Min. 6

**CAC-Superflow 40 (PQC)** is a chloride free product. The shelf life of the product is 1 year when stored as recommended.

## STORAGE:

**CAC-Superflow 40 (PQC)** must be stored at above 5<sup>0</sup>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 **CAC-Superflow 40 (PQC)** will result in the following:

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

## PACKAGING:

**CAC-Superflow 40 (PQC)** is available in 250 kg drums and in tanker (10 MT).

## SAFETY PRECAUTIONS:

**CAC-Superflow 40 (PQC)** is a non-toxic and non-flammable. When in contact with the skin, it should be washed with cold water.

### Disclaimer:

The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests and take trials to ensure on suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of the other materials used and on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The Company does not assume any liability or any consequential damage for unsatisfactory results, arising from the use of our products.

Ver.: CAC-Sf-40-PQC/9/2023

## Concrete Additives & Chemicals Pvt. Ltd.

Plot No.-W/11, TTC Industrial Area, MIDC,  
Pawane, Navi Mumbai-400705.  
Tel: +91-22-20872752  
Website: [www.cac-admixtures.com](http://www.cac-admixtures.com)

AN ISO 9001 CERTIFIED COMPANY