

CAC®-Superflow 35 U

Old Generation Superplasticiser for concrete

Description

CAC®-Superflow 35 U is an old generation Sulphonated Naphthalene Formaldehyde based superplasticizer suitable for low to Mid grade of concrete. The use of special grade of SNF in the product, ROBUST performance in concrete is expected.

Indicative characteristics

Form	: Dark Brown Liquid
Specific Gravity	: 1.220 ± 0.02
pH	: Min. 6.0
Chloride Content	: Nil, as per BS - 5075 (Part-I)

*The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific customer requirements and mix design. Please refer to our MTC issued for specific product configuration for measuring our product parameters that will be constantly and consistently administered.

Key Benefits:

- ROBUST Concrete production with less impact in fines variation / clay content.
- Good dispersion even in mix with high fines.
- Fairly Good workability retention without affecting early strength.
- Less viscous concrete & easy pumping.
- Production of Free flow, cohesive concrete.
- Upto 21 % water reduction can be achieved with optimum dosage of admixture.

Domains of application

- Ready mix concrete.
- Project based concrete production.
- Concrete Roads, buildings and bridges . . .
- Pumped concrete.

Standard Compliance

CAC®-Superflow 35 U complies with IS9103:1999, BS 5075 Part 1 and with ASTM C494 Type G depending on dosage used.

Dispensing

CAC®-Superflow 35 U is a ready-to-use liquid which is dispensed into concrete together with mixing water. The plasticizing 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 **CAC®-Superflow 35 U** to dry aggregate or cement is not recommended. Thorough mixing is essential and a minimum mixing cycle, after the addition of the **CAC®-Superflow 35 U**, of 30-40 seconds for forced action mixers is recommended.

Optimum dosage can only be established after trials, considering the rheological characteristics and the required mechanical performances. Rate of addition is generally in the range of 0.4-2.0% by wt. of cementitious material.

** Higher dosage can be used in consultation with CAC Expert team, if agreed & allowed by clients/consultants

Concrete Additives & Chemicals Pvt. Ltd.

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Effects of over dosage

A severe over-dosage of **CAC®-Superflow 35 U** can result in the following:

- Extension of initial and final set
- Bleed/segregation of mix, quick loss of workability
- Increase in air entrainment.
- 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. Stripping times should be monitored.

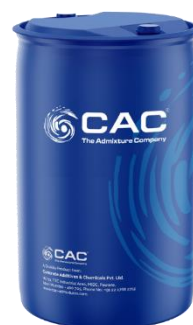
Compatibility

CAC®-Superflow 35 U is compatible with other CAC admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be premixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by trial mixes.

CAC®-Superflow 35 U is suitable for use with all types of Portland cements, SRC cement and cement replacement materials such as PFA, GGBFS and micro silica.

Packaging

250 Kgs Barrel & bulk in Tanker



Shelf Life: If stored in unopened containers at normal ambient temperatures, a shelf-life of 12 months.

Freezing point: Approximately -2°C.

Precautions

Not to be stored at high temperatures for long periods. Should be protected from frost. It is Non-toxic and formulated from chemicals which present no fire or health hazards. Spillages on skin should be washed with cold water immediately.

Safety

Before use, refer to the Material Safety Data Sheet.

Additional information

The **CAC®**- range of associated products in construction system, include high strength cementitious, epoxy grout, waterproofing & repair systems. Apart from these, curing compounds, release agents, are also available in CAC product baskets.

Separate datasheets are available on these products.

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