

ADVA[®] 845

Concrete Super plasticizer (PCE) for Mid and High Range applications



Product Description

ADVA 845 is a liquid mid range Polycarboxylate ether based admixture essentially designed to work in concrete mixes with medium to high binder contents.

ADVA 845 is specially formulated to offer adequate water reduction, prolonged slump retention and early set times, better compressive strengths in contrast to conventional naphthalene products.

ADVA 845 works effectively across both natural and crushed fine aggregates in a range of concrete grades starting from a least binder content.

ADVA 845 conforms to IS 9103, ASTM C494 Type A, D and Type F & G admixtures, and EN 934-2.

Method Of Use

ADVA 845 is supplied ready for use. It should be added in its supplied form to the concrete after at least 90% of water is added.

Compatibility with Cements

ADVA 845 can be used with most types of Portland Cements. It is effective in concretes containing pulverized fuel ash or ground granulated blast furnace slag.

For use with special cements we recommend to contact GCP Applied Technologies

Compatibility with Admixtures

ADVA 845 should not be premixed with other admixtures.

The performance of the material may be affected by the presence of other chemicals and we would recommend that GCP be consulted in such circumstances.

Advantages

- Can replace conventional naphthalene admixtures used in ready mix concrete
- Has a good dosage range to work over different types of mixes to offer desired performance
- Retains slumps for longer times with minimal retardation in contrast to conventional naphthalene admixtures
- Performs well with flyash mixes and also mixes containing ggbfs
- Can produce highly workable / self levelling mixes

Addition Rates

Range

- 300 ml -1700 ml per 100 kg cement
- 0.30% -1.70% (v/w) by wt. of cement

For advice and assistance with trials we recommend that you consult GCP Applied Technologies

ADVA 845 is a versatile, high performance product that benefits from a wide variety of applications. As with most products of this type the magnitude of the effect obtained with ADVA 845 is governed by the quantity of product used, water-cement ratio, and the specific nature of the concrete and constituent materials.

It is necessary, therefore, to assess performance under site conditions using actual materials to determine optimum performance and dosage and effect on both plastic and hardened concrete properties such as cohesiveness, workability retention, setting characteristics, rate of early strength gain, ultimate strength and shrinkage, where these are of consequence.

Effects of Overdosing

The effects of overdosing ADVA 845 are a function of the degree of overdose.

Depending on the extent of the overdose, an increase in setting time may also occur, especially in low temperatures, and or when employing sulphate resisting cement, or certain pozzolanic materials and/or when employing sulphate resisting cement or cement replacement materials.

In any situation where overdosing is suspected, a careful inspection of the concrete in its plastic state should be conducted. Particular attention should be paid to consistency and cohesiveness, prior to a decision on the suitability of the concrete for the particular application.

Dispensing

It is preferable that the ADVA 845 should be introduced into the mixer by means of automatic dispensing equipment. Equipment or advice on dispensing can be obtained from GCP Applied Technologies.

Health and Safety

For further information on Health and Safety matters regarding this product we recommend that you consult the relevant Safety Data Sheet from GCP Applied Technologies.

Packaging

ADVA 845 is supplied in 200 Liter drums and 1000 liter totes. Alternatively, bulk deliveries can be arranged.

Storage

ADVA 845 should preferably be stored away from extremes of cold or heat. The product should be kept in shaded storage at all times.

Storage Life:

12 months from date of manufacture.

Technical Service

Our Technical Service department of GCP Applied Technologies is available to assist you in the correct use of our performance chemicals.

gcpat.in | India customer service: +91 124 4885900

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