

ADVA[®] 960U

High Range PCE – for multiple applications



Product Description

ADVA 960U is a High Performance liquid PCE based admixture to cover several applications. It works well with all cement composites to produce desired results on field. Although it is a High Range PC targeted to work in high strength mixes above M50 and self-compacting mixes, it works across many grades of concrete starting from M20

Method Of Use

ADVA 960U 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 960U can be used with most types of Portland Cements. It is effective in concretes containing pulverized fuel ash or ground granulated blast furnace slag / ultra-fine ggbs / silica fume.

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

Advantages

- **No Chlorides:** No chlorides / salts are added in ADVA 960U. IS 9103 restricts chlorides to 0.2% in super plasticizers. ADVA 960U will record close to 100 times below this limit. Water Reduction & Slump Retention: ADVA 960U has a successful track record of offering high flow and flow retentions up to 3-4 hrs
- **Strength:** ADVA 960U offers excellent strength in comparison to many other equivalents in the market. Tolerant to Batch Plant variations: Moisture content variations in Batching Plant may affect many of the conventional PCEs. However, ADVA 960U offers good tolerance to such variations
- **Applications:** Works across many concrete mixes offering flexibility on water reduction and slump retention - suiting to the needs of High Strength, High Flow, Mid-Range and combinations thereof
- **Safe on Re-dosage at Site:** ADVA 960U offers very high slump retention, but very safe on set times. Also as ADVA 960U provides very good water reduction, a small redosage at site can retrieve

Addition Rates

Range

- 300 gm -1500 gm per 100 kg cement
- 0.30% -1.50% (v/w) by wt. of cement

As a guide to these trials, an addition level of 0.3-1.5 % of ADVA 960U weight by weight of cement is recommended.

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

ADVA 960U 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 960U 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

Overdosing ADVA 960U will induce bleeding and segregation but improves flow retention. Usually, small overdose will not adversely affect the fresh and hardened properties of concrete. A severe overdose can result in delay setting time, necessitating delay in strip times of formwork.

Dispensing

It is preferable that ADVA 960U should be introduced into the mixer by means of independent automatic dispensing equipment.

Such equipment or advice on dispensing can be obtained from GCP Applied Technologies.

Compatibility with Admixtures

ADVA 960U produces self-compacting mixes with good rheology control. However, if additional rheology control is necessary due to concrete materials or mix, VMAR®3 may be used in combination. ADVA 960U 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.

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.

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 960U is supplied in 200 Liter drums and 1000 liter totes. Alternatively, bulk deliveries can be arranged.

Storage

ADVA 960U 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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GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

GCP Applied Technologies India Private Limited, Unit No. 208, Second Floor, Time Tower Building, Sector-28, MG Road, Gurugram, Haryana-122002, India

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