ADVA® 320

New generation, polymer-based superplasticiser with superior slump retention

Product Description

ADVA®320 is the latest technology in the development of high range water-reducing superplasticising admixtures. It is an innovative, versatile, third generation polycarboxylic ether polymer developed for the premix and pre-cast industries to maximise performance through a wide range of concrete strengths.

ADVA®320 contains no added chlorides and complies with AS 1478.1 – 2000 Type HWR. ADVA®320 contains no TEA.

Product Advantages

- Superior slump retention.
- High compressive strength achieved at all ages.
- Improved surface finish.
- High workability.
- Easy addition during batching process.
- Well suited to produce self-consolidating (SCC) type of concrete.

Features & Benefits

- ADVA® 320 has been developed specifically for concrete with a wide range of strengths eliminating the need for other superplasticisers for specific applications.
- ADVA® 320 produces very high slump concrete at low watercement ratios without segregation and loss of strength.
- It can be added at the batch plant during the batching process eliminating the need for on-site addition.
- It has superior slump retention without excessive retardation.
- Requires less vibration for ease of placement in reinforced concrete.
- Improves surface finish and off-form finishes.
- May be used in some pre-cast operations.

ADVA®320 is an extremely versatile superplasticiser that has a wide range of applications with superior results.

Application

ADVA®320 allows concrete to be produced over a wide range of strengths, at low water-cement ratios with high placement slumps. ADVA®320 can produce high flow concrete for tremie and pump mixes that require extended slump life. ADVA®320 is ideal for use in general premix concrete.

Compatibility with Other Admixtures

ADVA®320, when used in combination with an air-entraining additive, can have a synergistic effect and increase the air void content slightly. It is recommended that pre-construction trials are undertaken to achieve the specified air content.

ADVA®320 can be used in conjunction with all WRDA®, DARATARD®and MIRA®water reducers. ADVA®320 can be used with ECLIPSE®, DCI®and V-MAR®products, also from GCP Applied Technologies. When using admixtures in combination, each admixture should be added separately to the mix.

Addition Rates

Addition rates of ADVA®320 can vary depending on the application, however a typical dose range would be between 400 and 1,000mL / 100kgs total cementitious materials.

In some batch processes ADVA®320 can be added in delayed mode with the last amount of batch water. When adopting delayed addition, adequate mixing must follow to produce a homogeneous mix.

At a given water-cement ratio, the slump can be controlled by varying the addition rates. It is recommended that trials are conducted beforehand to determine the optimum dose range to suit your application. If further assistance is required please consult your local GCP representative

Dispensing Equipment

Please contact your local GCP representative for further information regarding the dispensing equipment for this product.

Health and Safety

See ADVA®320 Material Safety Data Sheet or consult GCP Applied Technologies.

Packaging & Storage

ADVA®320 is available in bulk and 205L drums. Shelf life is 12 months.

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