

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.

gcpat.com.au | Australia customer service: 1800 855 525

Australia 1800 855 525 New Zealand +64 9 448 1146



China Mainland +86 21 3158 2888



Hong Kong +852 2675 7898



India: Chennai +91 44 6624 2308



Delhi +91 124 402 8923



Indonesia +62 21 893 4260



Japan +81 3 5226 0231



Korea +82 32 820 0800



Malaysia +60 3 9074 6133



Philippines +63 49 549 7373



Singapore +65 6265 3033



Thailand +66 2 709 4470



Vietnam +84 8 3710 6168 Australia 1800 855 525 New Zealand +64 9 448 1146 China Mainland +86 21 3158 2888 Hong Kong +852 2675 7898 India: Chennai +91 44 6624 2308 Delhi +91 124 402 8923 Indonesia +62 21 893 4260 Japan +81 3 5226 0231 Korea +82 32 820 0800 Malaysia +60 3 9074 6133 Philippines +63 49 549 7373 Singapore +65 6265 3033 Thailand +66 2 709 4470 Vietnam +84 8 3710 6168

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

ADVA, MIRA, WRDA, DAREX, DARATARD, DCI, Eclipse, V-MAR and Daracem are trademarks, which may be registered in the United States and/or other countries, of GCP Applied Technologies, Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2018 GCP Applied Technologies, Inc. All rights reserved.

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

GCP Australia Pty. Ltd., 14 Colebard Street West, Archerfield, Brisbane, Queensland 4108, Australia

This document is only current as of the last updated date stated below and is valid only for use in Australia. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on www.gcpat.com.au. Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2022-01-31

gcpat.com.au/solutions/products/adva-high-range-water-reducers/adva-320