WRDA® PA 100

Water-reducing set-accelerating admixture

Product Description

WRDA® PA 100 is a non-chloride, PC-based water-reducing set-accelerating admixture. WRDA PA 100 combines the benefit of water reduction, shorter finishing time and superior strength development.
WRDA PA 100 meets and exceeds AS 1478 - 2000 Type WRAc. WRDA PA 100 contains no added chlorides and when dosed at 600mL/ 100kg of total cementitious material, contains Triethanolamine (TEA) below 0.025%. WRDA PA 100 is manufactured under rigid controls to ensure uniform predictable performance. It is supplied as a clear and low viscosity liquid with a specific gravity of approximately 1.39kg ±0.02kg.

Features

- WRDA PA 100 will increase stripping strengths for quicker form or mould turn around
- Improve finishing times during colder months.
- Accelerate initial and final sets through a range of temperatures
- Increase water reduction to enhance concrete strengths and higher required workability
- Can increase de-stressing strengths in pre-stressed applications
- Enhance pumpability and finishability

Product Advantages

- Water reduction
- Reduces finishing time
- Increases concrete strength
- Improves concrete finishing and pumping
- Provides labour savings and improves productivity

Advantages

- The dispersion characteristics of WRDA PA 100 allows for moderate cementitious content concretes to achieve lower water-to-cement ratios. The combined effect is increased compressive and flexural strengths at all ages.
- WRDA PA 100 will improve and enhance finishing times over normal concrete, resulting in labour savings and increased productivity.
- WRDA PA 100 enables concrete to be produced with lower water content and improved placement properties, resulting in less permeable and more durable concrete.WRDA PA 100 is very effective in lean and or fly ash and slag compensated mixes both for finishing times and strengths.

Uses

WRDA PA 100 is used in :

- All types of pre-mix and pre-cast applications where a non-chloride, water-reducing set accelerating admixture is required.
- All types of concrete that have chloride ion restraints such as coastal applications.

Addition Rates

WRDA PA 100 can be dosed at between 400 and 1,500mL/100kg of total cementitious material. The higher addition rates will increase water reduction and acceleration, however admixture performance can depend on concrete components, job conditions, and desired performance characteristics.
To assist you in obtaining optimum performance from your admixtures from GCP Applied Technologies, we can offer comprehensive advice and site assistance service.
Overdosing of WRDA PA 100 will produce and increase concrete workability, air content and decrease setting time. The set acceleration effect will vary dependent on ambient temperatures, cement used, and the amount of overdose. However, provided correct curing procedures are followed, ultimate concrete strengths may be higher than a corresponding mix or standard admixture dosed concrete.

Compatibility with Other Admixtures

WRDA PA 100 in combination with an air entraining agent can have a synergistic effect, and so increase the air content. It is highly recommended that truck trials be conducted to achieve specified air content. Please consult your local GCP representative for dosage guidelines.
WRDA PA 100 can be used in conjunction with ADVA® and MIRA® range of water reducers. Each admixture should be added separately to the mix.
WRDA PA 100 cannot be used in conjunction with Darex® Super 20, Daracem® or Daracem 19A.

Packaging & Storage

WRDA PA 100 is available in bulk. Shelf life is 12 months.

Dispensing Equipment

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

Health and Safety

Read and understand the product label and Safety Data Sheet (SDS). All users should acquaint themselves with this information prior to working with the product and follow the precautionary statements. SDSs can be obtained by contacting your local GCP representative or office.

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gcpat.com.au/solutions/products/wrda-pa-100