WRDA® GWA

Water-reducing admixture

Product Description

WRDA®GWA is an aqueous solution formulated on modified lignosulphonates and does not contain calcium chloride. WRDA GWA is a dispersing agent which provides uniform, predictable performance and is supplied as a dark brown, ready-to-use, low viscosity liquid conforming to AS 1478 Type WR.

One litre weighs approximately 1.150kg ± 0.02kg.

Application

WRDA GWA provides a workable mix with less water resulting in stronger, less permeable and more durable concrete. It can be used in pre-mix, on-site and pre-cast plants for normal and specialty concretes.

Chemical Action

As a dispersing agent, WRDA GWA lessens the natural interparticle attraction between cement grains in water. It does this by absorbing itself onto the cement particle reducing their tendency to clump together, resulting in the mix being more workable with less water.

Addition Rates

WRDA GWA will provide water reduction with neutral sets at the recommended dose rates. At increased dose rates it can give some retardation, however this will generally depend on environmental conditions at the time of dosing.

The dose rate for WRDA GWA will typically range between 300 and 600mL / 100kg of total cementitious material.

WRDA GWA contains triethanolamine at a level which is below 0.025% S/C when used at a typical dose rate of 400mL / 100kg total cementitious.

Compatibility with Other Admixtures

WRDA GWA is compatible with all air-entraining concrete admixtures, however the quantity of air entraining agent when added with WRDA GWA to the concrete mix may be reduced by up to 50%.

WRDA GWA can be used in conjunction with HWR and both nonchloride and chloride-based accelerators. Each admixture should be added separately to the mix.

Dispensing Equipment

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

Packaging

WRDA GWA is available in bulk of 1,000L and 205L drums.

WRDA GWA is non-flammable, it can freeze at about -2°C but after thawing and agitating will have no adverse effect on the performance of the product.

Health and Safety

See WRDA GWA Material Safety Data Sheet or consult GCP Applied Technologies.

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