

# WRDA<sup>®</sup>

Water-reducing admixture

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## Applications

WRDA makes a workable mix with up to 15% less water and yields a stronger, less permeable and more durable concrete. It is used in ready mix plants, job site plants and concrete pavers, for normal weight and light weight concrete, in block, precast and prestressed concrete plants.

## Chemical Action

As a dispersing agent, WRDA lessens the natural interparticle attraction between cement grains in water. It does this by colloidal action, by absorption on the cement particles, thus reducing their tendency to clump together and makes the mix more workable with less water. As a cement catalyst, WRDA effects a more complete hydration of the cement, beginning immediately after the cement and water come together at the lower additions of WRDA or immediately after a period of designed and controlled hydration at the higher additions. WRDA increases the gel content of the concrete, the paste or binder that “glues” the concrete aggregates together. The increased gel content adds to the water retention and internal cohesiveness of the mix, reducing bleeding and segregation as it increases workability and placeability.

## Addition Rates

WRDA will provide water reduction with no retardation. At higher dosage rates, it will provide some retardation. However, after the period of initial retardation, hydration continues rapidly and completely.

WRDA contains amines at a level which is below 0.025% S/C when used at the typical dosage level (450mL per 100kg of cementitious material). The amount of WRDA to be used will typically range from 400 to 800mL / 100kg of cementitious material depending upon job requirements. However, higher addition rates may be used due to variations in cement, aggregate and other job site conditions.

## Dispensing Equipment

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



## Compatibility with Other Admixtures

WRDA is compatible with all air-entraining mixtures. Due to a synergistic effect of WRDA, the quantity of air-entraining agent added to WRDA admixed concrete may be reduced by 25–50%. By combining the separate effects of air entrainment and dispersion, the water requirement of concrete may be reduced up to 20%. Each admixture should be added separately. WRDA contains no calcium chloride but is compatible in concrete with calcium chloride. Again each admixture should be added separately.

## Packaging

WRDA is available in bulk and 205L drums. It contains no flammable ingredients. It will freeze at about  $-2^{\circ}\text{C}$  but will return to full strength after thawing and thorough mechanical agitation.

## Health and Safety

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

[gcpat.vn](http://gcpat.vn) | For technical information: [asia.enq@gcpat.com](mailto:asia.enq@gcpat.com)

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

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

GCP Vietnam Company Ltd, Lot B14, Section B, Street No. 12, Xuan Thoi Son Small Scale Arts & Crafts Group, National Road 22 Xuan Thoi Son Village, Hoc Mon District, Ho Chi Minh City

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