

# WRDA<sup>®</sup> PN

New dispersant technology water reducer with enhanced finishing properties

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## Product Description

WRDA<sup>®</sup>PN is an aqueous solution of highly purified polycarboxylate and carbohydrates. WRDA PN is a dispersing agent which provides uniform, predictable performance and conforms to AS 1478 Type WR. One litre weighs approximately 1.080kg ± 0.02kg.

## Applications

WRDA PN 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. WRDA PN is ideally suited for lean concrete mixes as well as concrete that uses manufactured sand.

## Chemical Action

As a dispersing agent, WRDA PN lessens the natural inter-particle 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. WRDA PN is also formulated with set and strength catalysts which promote more complete hydration of cement and Pozzolan materials. WRDA PN contains finishability agents that provide enhanced “slickness” to the surface of the concrete. This allows for easier trowelling, resulting in a greatly improved finish to the concrete as compared to what can be achieved using conventional water reducers. WRDA PN will also assist in producing concrete that will pump better due to the finishability agents that are used.

## Addition Rates

WRDA PN 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 PN will typically range between 200 and 600mL / 100kg of total cementitious material.

## Compatibility with Other Admixtures

WRDA PN is compatible with all air-entraining concrete admixtures, however the quantity of air entraining agent when added with WRDA PN may be altered to achieve required air entrainment. Initial lab and field trials are recommended to establish exact dose rates.

WRDA PN can be used in conjunction with MIRA<sup>®</sup> mid-range water reducers and ADVA<sup>®</sup> range of high range water reducers and both non-chloride and chloride-based accelerators. Each admixture should be added separately to the mix.

WRDA PN should not be used with DAREX<sup>®</sup> Super 20, DARACEM<sup>®</sup> or DARACEM<sup>®</sup> 19A.

## Dispensing Equipment

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

## Packaging

WRDA PN is available in 205L drums.

WRDA PN is non-flammable, it can freeze at about  $-2^{\circ}\text{C}$  but after thawing and agitating will have no adverse effect on the performance of the product.

## Health and Safety

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

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