

# WRDA<sup>®</sup> P20

Mid-Range Concrete Plasticiser

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## Product Description

WRDA<sup>®</sup>P20 is a high performance liquid concrete plasticiser. It is used to improve the workability of concrete and effect water reductions while producing excellent workability retention characteristic throughout a wide range of cement contents.

WRDA<sup>®</sup>P20 is formulated from carefully selected raw materials and is manufactured under controlled conditions to give a consistent product. It is based on high performance modified lignosulphonates combined with naturally derived polymers.

WRDA<sup>®</sup>P20 meets the requirements of Type D of ASTM C-494 and complies with BS EN 934-2.

## Product Advantages

- WRDA<sup>®</sup> P20 improves the workability of concrete and provides improved slump retention even at high ambient temperatures.
- Allows greater time for concrete placement and compaction.
- Effective over a wide range of cement contents
- Improves water tightness, impermeability and durability of concrete.
- Is employed to modify concrete mix designs to achieve cement economies.
- Enhances pumpability, characteristics, reducing bleeding.

## Typical Properties

Appearance	dark brown liquid
Specific Gravity	1.20 at 20°C
Air Entrainment	Air content of concrete mixes will normally be increased by between 1% and 2%.
Chloride Content	Nil

## Method of Use

WRDA<sup>®</sup>P20 is supplied ready for use. It should be added to concrete mixes during the mixing process at the same time as the water or the aggregates.

It should not be added directly to the cement. No extension of normal mixing time is necessary.

## Compatibility with Cements

WRDA®P20 can be used with all types of Portland, Pozzolanic and blast furnace cements. It can also be used with fly ash and silica fume.

## Compatibility with other Admixtures

WRDA®P20 should not be premixed under any circumstances with other admixtures. While some admixtures can be usefully combined within the same mix the performance of this product may well be affected by the presence of other chemicals and we recommend that GCP Applied Technologies be contacted for advice in all such circumstances.

## Addition Rates

**Range: 0.16%–0.7% volume by weight of cement**

The performance of WRDA®P20 is best assessed after preliminary tests in the laboratory and/or on site using the actual mix constituents under consideration to determine the optimum dosage and effect on concrete properties such as ultimate compressive strengths gains, setting times, workability retention, etc. when these are of consequence.

As a guide to these trials, a dosage of 160 ml–700 ml WRDA®P20 per 100 kg cement is recommended.

For advice and assistance with your trials, we recommend you consult our technical department.

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Last Updated: 2022-11-18

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