

# WRDA<sup>®</sup> P7

Concrete Plasticiser

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## Product Description

WRDA<sup>®</sup>P7 functions by adsorbing onto the surface of the cement particles in a concrete mix, resulting in a powerful deflocculating action and hence a more uniform dispersion of cement grains throughout the mix. This in turn leads to a higher degree of lubricity and a consequential increase in workability.

WRDA<sup>®</sup>P7 is formulated from a carefully selected blend of both synthetic and naturally derived raw materials and is manufactured under controlled conditions to give a consistent product which depending on addition rate, WRDA<sup>®</sup>P7 meets the requirements of Type A and D materials of ASTM designation C-494 and complies with BS EN 934-2.

## Typical Properties

Appearance	dark brown liquid
Specific Gravity	1.20 at 20°C
Air Entrainment	Increase in air content of concrete mixes is minimal and will rarely exceed 0.5%.
Chloride Content	Nil
Freezing Point	0 °C

## Method of Use

WRDA<sup>®</sup>P7 is supplied ready for use. It should be added to concrete mixes during the mixing process at the same time as the water. It should not be added directly to the mix. No extension of normal mixing time is necessary.

## Compatibility with Cements

WRDA<sup>®</sup>P7 can be used with all types of Portland, Pozzolanitic and blast furnace cements. It can also be used with cement containing fly ash and silica fume.

## Compatibility with other Admixtures

WRDA<sup>®</sup>P7 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**

WRDA<sup>®</sup>P7 is a versatile, high performance product which gives benefits in a wide variety of applications.

As with most products of this type, the magnitude of the effect obtained with WRDA®P7 is governed within limits by the quantity of product used and the specific nature of the concrete under consideration. It is therefore necessary to assess performance under site conditions, bearing in mind the particular requirements of the situation in order to determine the optimum dosage.

As a guide to these trials, an addition rate of 160 ml–700 ml WRDA®P7 per 100 kg cement is recommended.

## Effects of Overdosing

Overdosing of WRDA®P7 will generally produce a considerable increase in workability and in certain circumstances, a slight increase in air entrainment. This particularly in cold weather will be accompanied by a retardation of the initial and final set of the cement. In such cases, however, provided the concrete is properly cured the ultimate strength will generally be higher than for normal concrete.

The effects of overdosing will also be exaggerated when sulphate resisting cement is used in place of ordinary Portland cement.

## Dispensing

It is preferable that liquid admixtures for concrete should be introduced into a mixer by means of automatic dispensing equipment details of which are available on request.

## Health and Safety

For further information see WRDA®P7 SDS (Safety Data Sheet) or consult GCP

## Packaging

WRDA®P7 is supplied in nominal 210 litre, non-returnable containers.

Alternatively, bulk deliveries can be arranged.

## Storage

WRDA®P7 should be stored in original containers or suitable closed tanks, preferably out of direct sunlight and protected from extremes of temperature.

### Storage Life in Manufacturer's Drums:

12 months from the date of manufacture

### Storage Life in Bulk Storage:

12 months from the date of delivery

## Technical Service

The Technical Service Department of GCP is available to assist you in the correct and best use of our products. These resources and advice are at your disposal entirely without obligation. Please contact:

GCP

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