



# PACTOFlo P1000

High Range Water Reducing Superplasticizer

## Description

**PACTOFlo P1000** is a chloride free superplasticizer based on sulphonated naphthalene, designed to act as a powerful water reducing agent and to accelerate the early strength development of concrete.

## Advantages

- Powerful plasticizing action reduces or eliminates the need for compaction.
- Concretes of similar workability can be produced with 20-30% less water.
- Increased compressive, tensile and flexural strength can be achieved as a benefit of its water reducing properties.
- High early strengths can significantly increase mould utilization in precast works.

## Uses

- To provide excellent acceleration of strength gain at early ages and major increases in strength at all ages by significantly reducing water demand in a concrete mix.
- Particularly suitable for precast concrete and other high early strength requirements.
- To significantly improve the workability of site mixed and precast concrete without increasing water demand.
- To provide improved durability by increasing ultimate strengths and reducing concrete permeability

## Properties

Appearance	: Brown liquid
Specific gravity	: 1.22 ± 0.01 @ 25°C
Chloride content	: Nil to BS 5075

## Standards

**PACTOFlo P1000** complies with ASTM C494 Type A and F, and BS 5075: Part 1 and 3

## Dosage

The optimum dosage of **PACTOFlo P1000** to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use.

For high strength, water reduced concrete the normal dosage range is from 1.0 to 3.0 litres/100 kg of cementitious material, including PFA, GGBFS and microsilica. For high workability concrete the normal dosage range is from 0.70 to 2.0 litres/100 kg of cementitious material.

## Overdosing

An overdose of **PACTOFlo P1000** will result in an increase in retardation. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired.

The effects of overdosing will be further increased if sulphate resisting cement or cement replacement materials are used.

## Compatibility

**PACTOFlo P1000** is compatible with other admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be premixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by trial mixes.

**PACTOFlo P1000** is suitable for use with all types of Portland cements and cement replacement materials, such as GGBS, microsilica and PFA.

The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times.

## Dispensing

**PACTOFlo P1000** is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticizing effect and water reduction are higher if the admixture is added to the concrete after 50 to 70% of the mixing water has been added. The addition of **PACTOFlo P1000** to dry aggregate or cement is not recommended.

## Storage

Up to 2 years in unopened original packing, protected from extremes of heat and cold and stored under shade.

## Precautions

**PACTOFlo P1000** is not a fire or health hazard. Spillages should be washed down immediately with cold water. For further information refer to the Material Safety Data Sheet.



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