

PR 805 CA

High range, water reducing superplasticiser for rheoplastic concretes

DESCRIPTION

PR 805 CA Admixture is formulated from synthetic polymers specially designed to impart rheoplastic qualities to concrete.

A rheoplastic concrete is a fluid concrete with a slump of at least 200mm, easily flowing, but at the same time free from segregation and having the same water/cement ratio as that of a low slump concrete (25mm) without admixture.

PR 805 CA Admixture is chloride free.

ADVANTAGES

PR 805 CA Admixture considerably improves the properties of fresh and hardened concrete.

PRIMARY USES

- Microsilica concrete
- Mass concrete pours
- Ready mixed concrete
- Long-distance transport
- Pumped concrete
- Casting in hot climates

To obtain:

- Reduced thermal peaks
- High workability for longer periods
- Lower pumping pressure
- Delayed setting with longer workability
- Higher ultimate strengths.
- Reduced permeability
- Improved durability

COMPATIBILITY

PR 805 CA Admixture is compatible with all cements and most air entraining agents meeting the ASTM standards. The addition of **PR 805 CA Admixture** and **MasterAir 100** (air entraining agent) to concrete is recommended where it is required to withstand freezing and thawing cycles.

PACKAGING

PR 805 CA Admixture is available in bulk or in 210 litre drums.

TYPICAL PROPERTIES*

Colour:	Dark brown liquid
Specific gravity:	1.210 at 25°C
Chloride content:	"chloride-free" to EN 934
Freezing point:	0°C

STANDARDS

EN 934-2 Tables 3.1, 3.2, 11.1 and 11.2
ASTM C-494 Type A, B, D, F and G

DOSAGE

Optimum dosage of **PR 805 CA Admixture** should be determined in trial mixes. As a guide the following dosages are recommended as a starting point for any trial. In normal concrete a dosage of between 0.8-2.0 litre / 100kg total cementitious material. In high performance micro silica concrete a dosage of between 1.5-3.0 litre / 100kg total cementitious material. Dependant upon mix requirement, it is possible to use a higher dosage of **PR 805 CA Admixture** without causing any adverse effects upon the concrete. Please consult our Technical staff for further information.

DISPENSING

PR 805 CA Admixture is a ready-to-use liquid which is dispensed into the concrete together with the mixing water. The plasticising 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 **PR 805 CA Admixture** to dry aggregate or cement is not recommended. Automatic dispensers are available.

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WORKABILITY

PR 805 CA Admixture ensures that rheoplastic concrete remains workable in excess 3 hours at +20°C.

Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot and dry climates.

STORAGE

PR 805 CA Admixture must be stored where temperatures do not drop below +5°C. If product has frozen thaw and agitate until completely reconstituted. Store under cover, out of direct sunlight and protect from extremes of temperature.

SAFETY PRECAUTIONS

PR 805 CA Admixture 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.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local representative.

* Properties listed are based on laboratory controlled tests.