



Conplast® RMC SP555

Superplasticiser for high strength and high performance concrete

Uses

- For ready mix concrete for all grades particularly higher grades of concretes.
- Can be used with microsilica and flyash
- Can be used to produce pumpable concrete
- Ideal for concreting in hot climates

Advantages

- Produces self compacting and highly fluid concrete which needs little or no compaction.
- Reduces permeability and enhances durability of concrete
- Increases cohesion of the mix and gives high slump retention.
- Chloride free and ideal for use in RCC, PSC or marine structures
- Increases usable life of concrete and hence gives longer placing time

Standards Compliance

Conplast RMC SP555 complies with the requirement of ASTM C 494-80 as a Type D & G.

Description

Conplast RMC SP555 is a high range water reducing superplasticiser specially designed for high strength and high performance concretes. This impart high fluidity to concrete without bleed or segregation.

Technical Support

The company provides a technical advisory service supported by a team of specialists in the field.

Properties

Colour	Dark brown liquid
Specific Gravity	1.20 - 1.22 at 27°C
Air entrainment	Less than 2%
Compatibility	Compatible with all types of Portland cement
Chloride content	Nil. as per BS5075
Nitrate content	Nil
pH	7.0 - 8.0

Compressive Strength: Conplast RMC SP555 is primarily a highly efficient superplasticiser giving large increase in workability without significant changes in compressive strength of concrete.

Conplast RMC SP555 may be used to produce substantial water reduction in the concrete mix resulting in a considerable increase in compressive strength of concrete.

Mix Design: As with all admixtures that produce flowing concrete, the design technique should be based on high cohesion pump mix technology. Specialist advise from Fosroc is available on request.

Application instructions

Dosage

It is recommended that the optimum dosage is determined by site trials with the actual concrete mix. As a guide the rate of addition shall vary from 0.8% to 1.5%. Depending on the workability requirements and mix design a dosage of upto 1.8% can be used.

Use at other dosages

Dosages outside the normal range quoted above can be used to meet particular mix requirements. Contact Fosroc for advice in these cases.

Curing

Normal curing methods such as water spray, wet hessian or a Concure curing membrane should be used.

Cleaning

Spillages of Conplast RMC SP555 can be removed with water.

Estimating

Packaging

Conplast RMC SP555 in 200 litres drum.

Storage

Shelf life

Conplast RMC SP555 has a minimum shelf life of 12 months when stored in unopened containers below 35°C.

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Precautions

Health & Safety

Conplast RMC SP555 is non toxic. Any splashes should be washed off with water. If contact with eyes occurs, wash immediately with water and seek medical advice.

Fire

Conplast RMC SP555 is non flammable.

Additional information

Technical data and guidance can be provided on wide range of admixtures and concreting aids, including plasticisers, superplasticisers, retarding admixture and accelerators, etc.

Separate datasheets are available on request.

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