



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Ημ. έκδοσης 08/2010

TSIRCO-FLO S3 SPECIAL

Synthetic High Range Water Reducer

Product

TSIRCO-FLO S3 SPECIAL is a synthetic polymer and belongs to a new generation of admixtures.

Purpose

To be used under all climatic conditions where high quality concrete with excellent workability properties is essential.

Pack

20, 210 litre drums and delivery in bulk.

Usage

Site trials with the proposed mix must be carried out in order to determine the ideal dosage for the required workability. As a guide, use 0.10 to 0.20 lt per 50kg of cement will give a considerable water reduction. A dosage of 0.30 to 0.60 lt per 50kg of cement will act as a super plasticiser with extended workability. The proper dosage must be determined again by site trials. This product is also suitable for concrete containing Microsilica or Pozolanic cement.

Introduction

TSIRCO-FLO S3 SPECIAL has the following advantages:

- Greatly improved, workability and compaction, is given to the concrete.
- Water reduction of up to 15% can be achieved.
- Improves cohesion and reduces segregation.
- Improves greatly the pumpability of the concrete.
- Reduces bleeding of the concrete.
- It does not entrain air in the concrete.
- Reduces permeability and increases durability and ultimate strength of the concrete.
- It does not delay the rate of gain of strength.

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Typical Product Data

Physical State: Brown aqueous solution

Specific Gravity: 1.19 at 20°C

Application Standard:

EN 934-2:2009



1328-CPD-0001

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Βιομηχανική περιοχή Στροβόλου.

Τ.Κ. 23863, 1687 Λευκωσία, Κύπρος

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1328-CPD-0042

EN 934-2

Water reducing/plasticizing/High range water
reducing/super plasticizing/Hardening
accelerating admixtures for concrete.

EN934-2:T2/T3.1/T3.2/T7

Maximum chloride content: 0.30%

Maximum alkali content: ≤ 5.3% by mass

Use

TSIRCO-FLO S3 SPECIAL can be used at low dosage as a normal high quality plasticiser and at higher dosage as a super plasticiser.

As a super plasticiser TSIRCO-FLO S3 SPECIAL may be used in multiple ways:

- a. To give more workable concrete where placing is difficult particularly around congested reinforcement. This is achieved by dosing the mix with TSIRCO-FLO S3 SPECIAL while keeping the water: cement ratio and the other proportions of the mix unchanged.
- b. To give higher strength and improved durability to concrete. This is achieved by dosing the mix with TSIRCO-FLO S3 SPECIAL while reducing the water content so that workability is similar to that of the plain mix.

Storage Life

TSIRCO-FLO S3 SPECIAL has a storage life of not less than 1 year, provided it is kept in manufacturer's sealed containers and it is protected from frost and direct sunlight. If the product freezes it must be thawed out completely and mixed thoroughly before it is used.

Handling Precautions

Ingestion should be avoided and skin must be protected from prolonged contact with the liquid. Any splashes to the skin must be washed off with clean water. Also any splashes to the eyes must be washed off immediately with clean water and medical advice must be sought.

How to specify

TSIRCO-FLO S3 SPECIAL to be used strictly in accordance with the instructions of the manufacturers, TSIRCON CO. LTD.

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