



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Ημ. έκδοσης 12/2010

TSIRCO-FLO S3

High Range Water Reducing Concrete Admixture

Product

An economical high performance water-reducing admixture with normal setting properties.

Composition

TSIRCO-FLO S3 is a brown liquid blend based on special selected organic derivatives. The product is non-toxic and does not contain calcium chloride or any other corrosive and harmful chemicals for either the concrete or the reinforcement.

Purpose

To impart excellent workability and act as a high-range water reducer.

Usage

Site trials with the proposed mix must be carried out in order to determine the ideal dosage for the required workability and other properties. For normal use the dosage of 0,10-0,20 litres per 50kg of cement will give considerable workability and water reduction.

A dosage of 0,30-0,60 litres per 50kg of cement will act as a superplasticiser and high-range water reducer. The proper dosage must be determined by site trials. This product is especially suitable to be used with Microsilica concrete or where low water/cement ratios or high performance concrete are required.

Pack

20 and 210 litre drums or bulk delivery.



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Introduction

TSIRCO-FLO S3 is a blend of specially selected organic derivatives designed to act as a high-range water reducer.

TSIRCO-FLO S3 has the following advantages:

- It is effective and economical as a normal plasticiser at low level of addition.
- It can be used at higher levels of addition of up to 0,60 litre per 50kg of cement to give superplasticising action and high water reduction.
- It is compatible with the other admixtures of the TSIRCO-FLO series provided, they are added separately in the mix.
- It is also compatible with all types of Portland Cement, PFA, Silica Fume and GGBFS.
- Water reduction of up to 15% can be achieved.
- It improves physical properties of concrete and high ultimate strengths can be achieved.
- Increases early strength by up to 35%.

Typical Product Data

Physical state: Brown aqueous solution

Specific Gravity at 20°C: 1, 20

Sugar content: Nil

Application Standards: EN 934-2:2009

ASTM C 494/C 494M – 99a – Type A and F.

Durability

Concrete incorporating TSIRCO-FLO S3 presents greater durability against concrete not incorporating the admixture.

Curing

Normal curing methods should be applied.



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Dosage

The ideal dosage for any particular use should be determined by site trials. As a guide you may use 0,10-0,20 litres per 50kg of cement to produce a workable concrete and 0,30-0,60 litres per 50kg of cement to produce a superplasticized concrete.

Overdosing

In case of overdosing retardation and loss of strength may occur.

Storage life

TSIRCO-FLO S2 has a storage life of not less than one year. The product must be kept in the manufacturer's sealed containers and it must be protected from frost and direct sunlight, especially at temperatures over 30°C. In case it becomes frozen, thawing must be allowed and thorough mixing must be made before use.

Handling precautions

TSIRCO-FLO S3 is a non-toxic industrial chemical. Prolonged contact with skin should be avoided. 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 to be used strictly in accordance with the instructions of the manufacturers, TSIRCON CO. LTD.