



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Ημ. έκδοσης 8/2010

TSIRCO-FLO S4

High Range Water Reducing and Set Retarding Concrete Admixture

Product

An economical high performance water-reducing admixture with set retarding properties.

Purpose

To impart excellent workability with efficient retarding effect.

Usage

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

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

Pack

20, 210 litre drums and delivery in bulk.

Introduction

TSIRCO-FLO S4 is a blend of specially selected organic derivatives designed to act as a retarding, high-range water reducing admixture.

TSIRCO-FLO S4 has the following advantages:

- It is effective and economical as a normal plasticiser at low levels of addition.



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- It can be used at higher levels of addition of up to 0,60 litre per 50kg of cement to give super plasticising action and prolonged workability for periods of about 4 hours. It does not delay the rate of gain of compressive strength, once the retardation period has elapsed.
- 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.
- You can achieve water reduction of up to 15%.
- It improves physical properties of concrete and high ultimate strengths can be achieved.
- Increases early strength by up to 35%.

Properties

Physical State: Brown aqueous solution

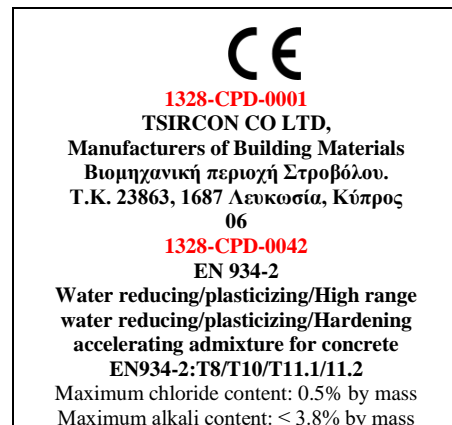
Specific Gravity: 1, 20 at 20°C

Additional Air Entrainment: Less than 1%-2%.

Application Standards:

ASTM C 494/C 494M – 99a – Type D and G.

EN 934-2:2009



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.

Durability

Concrete incorporating TSIRCO-FLO S4 presents greater durability against concrete not incorporating the admixture.



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Curing

Normal curing methods should be used.

Storage life

TSIRCO-FLO S4 can be kept ready for use for one year. The product may stay in the manufacturer's sealed containers and kept under cover at temperatures below 50°C.

Handling Precautions

TSIRCO-FLO S4 is a non-toxic industrial chemical. Avoid prolonged contact with skin to prevent skin irritation. If accidental contact with the eyes occurs, wash immediately using clean water and medical advice should be sought.

How to specify

TSIRCO-FLO S4 to be incorporated in concrete strictly in accordance with and recommendations of the manufacturer's, TSIRCON CO LTD.