



**TSIRCON CO LTD**

MANUFACTURERS & TRADERS  
OF BUILDING MATERIALS

Ημ. έκδοσης 08/2010

# TSIRCO-FLO R 32

## A Synthetic High Performance water reducing and set retarding Polymer

**Product:** TSIRCO-FLO R 32 is a synthetic polymer admixture for water reduction and prolong retardation.

**Purpose:** To be used under all climatic conditions specially at High Ambient Temperatures to produce high quality concrete with water reduction and prolong workability.

**Pack:** 20, 210 litres 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 degree of retardation. As a guide, use 0.10 to 0.3 litres of TSIRCO-FLO R 32 for every 50kg of cement to achieve a retardation of 1 to 6 hours at 20°C and 1 to 4 hours at 35°C. Lower dosage may be used, depending on the degree of retardation and workability desired.

**Introduction:** TSIRCO-FLO R 32 is a high-performance polymeric admixture for concrete and mortars, specially formulated to achieve water reduction with prolong workability at high ambient temperatures.



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## Properties:

Physical State: Brown aqueous solution

Specific Gravity: 1.16

Application Standards:

ASTM C 494, Type A&G

EN 934-2:2009



## Use:

TSIRCO-FLO R 32 is a high performance plasticizer retarding admixture with prolong workability.

As a set retarder it may be used for two functions:

1. To compensate for the acceleration on the setting of concrete caused by high ambient temperatures occurring during summer or during work in boiler houses, furnaces and other similar installations.
2. To prolong workability at normal temperatures, in order to reduce cold joints and thus ensure better structural continuity. This is essential where interruptions and long delays between successive placing of concrete are unavoidable due to the size of the job e.g. concrete dams, large concrete platforms, etc. Also where continuity is important like in slip-forming operations, cast-in-situ piles, etc.

As a plasticiser TSIRCO-FLO R 32 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 R 32 while keeping the water: cement ratio and the other proportions of the mix unchanged.



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- b. To give higher strengths and improved durability to concrete. This is achieved by dosing the mix with TSIRCO-FLO R 32 while reducing the water content so that workability is similar to that of plain mix.

**Storage Life:** TSIRCO-FLO R 32 has a storage life of 1 year provided it is kept in the manufacturers sealed containers and 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.