



TSIRCON CO LTD

MANUFACTURERS & TRADERS
OF BUILDING MATERIALS

Ημ. έκδοσης 12/2006

TSIRCO-MORTAPLAST

Air entraining mortar plasticizer

Product

A highly efficient air entraining admixture which improves the workability of sand-cement mortars and eliminates the need for lime.

Composition

Clear liquid, free from calcium chloride.

Purpose

To improve the workability of sand-cement mortars.

Usage

TSIRCO-MORTAPLAST can be used with all kinds of sand-cement mortars in order to produce a more workable and easily applied mix. Suitable for use in mortars for brickwork, backing coats for plastering and external rendering.

Pack

20 litre and 210 litre drums and in bulk.

Advantages

1. Maximum Plasticity: The mix becomes more workable and with a better consistency. It spreads easier, making the adjustment of bricks simpler, improving also the final finish of render works.



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2. Optimum Air-Entrainment: During construction, the introduction of air-entrainment into the mix increases the resistance against frost both during and after construction. It also increases the durability of the mix.

3. Minimum Water/Cement Ratio: The reduction of water/cement ratio reduces shrinkage cracking and crazing. It also provides better adhesion.

4. Eliminates the need for lime: The use of TSIRCO-MORTAPLAST in the mortar mix eliminates the need for lime.

5. Economy: The improved workability increases productivity. TSIRCO-MORTAPLAST is more economical than lime and masonry cement plasticizers.

Introduction

TSIRCO-MORTAPLAST is a mortar plasticizer specially designed to reduce shrinkage, cracking and crazing of mortar mixes by enabling the reduction of water content of a specified mix. Furthermore, TSIRCO-MORTAPLAST makes the use of lime unnecessary.

TSIRCO-MORTAPLAST improves the workability of mortar mixes. It is highly effective with all types of building sands but it is particularly useful when a fatty mix with coarse sand is required. It should be noted that clean building sands produce better quality mortars than salty sands, which might cause strength, shrinkage and bond problems.

Properties

TSIRCO-MORTAPLAST is supplied in liquid form, free of calcium chloride. It produces controlled air-entrainment thus reducing permeability to water. This means that the hardened mortar has a higher resistance to weathering and frost action. In addition, the tiny air bubbles trapped in the hardened mortar provide a "cushioning effect" by absorbing much of the internal pressure caused by the formation of ice crystals in the pores during freezing conditions. In this way renders and screeds are protected from cracking and crazing.



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How to use

TSIRCO-MORTAPLAST is supplied in liquid form. Where lime is used in the mortar, 20lt of TSIRCO-MORTAPLAST substitute about 1,6ton of lime. Thus the cost of lime will be saved while there will also be additional savings on handling and storage costs. TSIRCO-MORTAPLAST is cheaper than masonry cement plasticizers and saves the inconvenience of having to store two types of cement at site. Furthermore, TSIRCO-MORTAPLAST is advantageous over lime-free, cement-enriched mixes both in terms of better quality and higher economy.

Cold weathering working

TSIRCO-MORTAPLAST is free from calcium chloride and producing an air-entrained mortar, which after setting can withstand temperatures as low as – 4°C without suffering freeze-thaw damage.

During very low temperatures, steps must be taken to maintain all materials above freezing point.

Hot weathering working

During very high temperatures care must be taken during the curing process to avoid rapid loss of moisture, which leads to cracking.

Dosage

0,9lt/300kg of cement

Storage Life

Not less than one year if kept in manufacturer's sealed containers and protected from frost and direct sunlight especially at high temperatures.

Handling precautions

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.



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How to specify

TSIRCO-MORTAPLAST to be used strictly in accordance with the instructions of the manufacturers TSIRCON CO. LTD.