

# Tec<sup>®</sup> MIX PLASTER

Efflorescence control plasticizer for plasters and concrete mortars

## Primary Applications

To improve workability and trowelling properties of sand/cement mortar mixes during application. To increase quality of masonry and plastering.

## Features & Benefits

Improved moisture retention and bond strength: Slows down drying out of mortar which remains workable longer. Ensures better bond to all surfaces, including ceiling.

Makes mortar crack resistant : Minimises drying shrinkage cracks and increases frost resistance in cold climates.

High workability : Even with harsh sands, makes creamy easy-to-apply mortar.

Cost saving : Increase yield of the same quantity of sand/ cement. Extra coverage normally exceeds material costs.

Better & safer masonry : Mortar fills joints easily and efficiently and ensures stronger construction.

Improved appearance : Mortar cuts cleanly from faces of brick, block or stone work.

Increased productivity : Speeds up work by easy application of mortar.

Efflorescence resistance : Special component is there in the product to control efflorescence.

## Description

Tec Mix<sup>®</sup>Plaster Mortar Plasticiser is supplied as an off-white to pale yellow liquid which mixes readily with water in any proportions. It is based on internationally recognized chemicals and is free from calcium chloride and similar salts.

## Technical support

Techny offers technical support service to specifiers, end users and contractors, as well as on-site technical assistance in locations all over the country.

## Properties

Chloride content : Nil

Compatibility with cements : Can be used with any type of Portland, Super Sulphate, Blast furnace or Pozzolanic cements.

Setting time : There is no significant effect on the setting of sand/ cement mortars.

Plasticising action : Tec<sup>®</sup>Mix Plaster Mortar Plasticiser entrains controlled amount of microscopic air bubbles which increase cohesion and provide lubrication to the same particles in the mix, thereby imparting improved workability to the mortar. The air bubbles hold the cement/water matrix at the contact surfaces which results in improved bond strengths.

Frost resistance : Where this is a consideration, that air entrainment appreciably increases the frost resistance of the fully cured mortar

Increased yield : The special action of Tec<sup>®</sup> Mix Plaster Plasticiser causes the cement particles to disperse evenly throughout the mix, which combined with its air entrainment property, expands the volume of the mortar. Increase in yield for the same quantities of sand and cement is typically between 8% and 18%, depending upon the coarseness or fineness of the sand used.

With typical mixes of 1:3 and 1:4 cement : sand, the cost of Tec<sup>®</sup>Mix Plaster Mortar Plasticiser will normally be recovered and, in most cases, a net cost saving will be obtained, as a result of the increased yield.

## Application instructions

### Mixing

Tec<sup>®</sup> Mix Plaster Mortar Plasticiser may be added either direct to an individual mix or to the gauging water, depending upon site convenience.

### Direct to the mix

1. Use between 0.100 and 0.200 litres of Tec<sup>®</sup> Mix Plaster Mortar Plasticiser per 100kgs of cement. Soft fine sand will require least and harsh sands most. Site trials will best determine the practical rate of addition in each case and are recommended.
2. Tec<sup>®</sup> Mix Plaster Mortar Plasticiser to be stirred thoroughly. Plasticiser and stir into the first bucket of the gauging water.
3. After dry mixing the sand/cement in the normal way, add the Tec<sup>®</sup> Mix Plaster Mortar Plasticiser / water mixture and start wet mixing.
4. Continue adding plain water and mixing the mortar until the required workability is obtained.

**Note :** Do not add Tec<sup>®</sup> Mix Plaster Mortar Plasticiser directly to dry sand/cement mortar.

1. Add between 0.100 and 0.2 litres of Tec<sup>®</sup> Mix Plaster Plasticiser to every 100 litres of water and stir well to ensure even dispersion.
2. Use the Tec<sup>®</sup> Mix Plaster Mortar Plasticiser / water mixture to make the mortar in the usual way and keep adding and mixing until the required workability is obtained.

### Lime Mixes :

Where a small quantity of hydrated lime is usually added to a sand/cement mix to fatteness and plasticity, the lime may normally be omitted and Tec<sup>®</sup> Mix Plaster Mortar Plasticiser used to replace it with economic benefits.

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## Curing

Mortar containing Tec<sup>®</sup>Mix Plaster Mortar Plasticiser should be properly cured in accordance with accepted practice and protected against sun and drying winds.

## Overdosing

Overdosing of Tec<sup>®</sup>Mix Plaster Mortar Plasticiser will result in increased workability and air entrainment.

## Cleaning

Spillages of Tec<sup>®</sup>Mix Plaster Mortar Plasticiser should be removed with water.

## Limitations

Excess dosage of Tec<sup>®</sup>Mix Plaster Mortar Plasticiser, will result in reduction of the final strength of the mortar.

## Estimating

## Packaging

Tec<sup>®</sup>Mix Plaster Mortar Plasticiser is supplied in 100ml, 1, 5, 12 and 200 litre containers.

## Storage

## Shelf life

Tec<sup>®</sup>Mix Plaster Mortar Plasticiser has a shelf life of 12 months under normal ambient temperatures. It should be protected from temperatures above 40°C and stored in shade.

## Precautions

## Health and safety instructions

Tec<sup>®</sup>Mix Plaster Mortar Plasticiser is mildly alkaline. Avoid contact with the skin. Accidental splashes to eyes should be washed immediately with plenty of water and medical treatment sought.

## Fire

Tec<sup>®</sup>Mix Plaster Mortar Plasticiser is non inflammable.

## Additional information

The Techny range of associated products includes high strength cementitious, epoxy grout, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; Resin Anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz., curing compounds, release agents, flooring systems, repair mortars, sealants and waterproofing materials.



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