

NEUTROL 272

Mortar Plasticizer



Neutrol® 272 is a mortar plasticizer which mixes readily with water in any proportion. It is based on polycarboxylic ether polymers and is free from calcium chloride and similar salts.

Uses

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

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:** Minimizes drying shrinkage cracks and increases frost resistance in cold climates.
- **High Work Ability:** Even with harsh sands, makes creamy easy-to-apply mortar.
- **Economical:** 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 due to easy application of mortar.

Technical Support

Thermax provides a technical advisory service for onsite assistance and advice on mix design, admixture selection and evaluation trials and dispensing equipment.

Properties

Specific Gravity at 27°C	1.00-1.05
Appearance	Off-White to Pale Yellow
Chloride Content	Nil

Compatibility with Cements: Can be used with any type of Portland, Super Sulphate, Blast Furnace or Pozzolan Cements.

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

Plasticising Action: Neutrol® 272 entrains a controlled amount of microscopic air bubbles which imparts the property.

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 Neutrol® 272 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.

Dosage

The optimum dosage of Neutrol® 272 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. As a general guideline the dosage ranges shall vary from 0.1 to 0.2 ltr/100kg cementitious material.

Soft fine sand will require least and harsh sands most.

Usage at Other Dosages

Dosage outside the normal range quoted above can be used to meet particular mix requirements. Thermax office can be contacted for advice in these cases.

Effects of Overdosing

Overdosage may cause increased workability and air entrainment.

Instructions for Use

Neutrol® 272 may be added either directly to an individual mix or to the gauging water, depending upon site convenience.

Mixing

Neutrol® 272 is ready to use liquid which is dispensed into the concrete together with gauging water. It must be stirred thoroughly before use.

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Neutrol® 272 with water to be added after dry mixing the sand/cement in the normal way, further wet mixing it.

Plain water to be added continuously while mixing the mortar until the required workability is obtained.

Note: Do not add Neutrol® 272 directly to dry sand/cement mortar. Add between 0.100 and 0.2 liters of Neutrol® 272 to every 100 liters of water and stir well to ensure even dispersion.

Lime Mixes:

Where a small quantity of hydrated lime is usually added to a sand/cement mix to fattiness and plasticity, the lime may normally be omitted and Neutrol® 272 used to replace it with economic benefits.

Curing

Mortar containing Neutrol® 272 should be properly cured in accordance with accepted practice and protected against sun and drying winds.

Cleaning

Spillages of Neutrol® 272 should be removed with water.

Limitations

Excess dosage of Neutrol® 272, will result in reduction of the final strength of the mortar.

Health and Safety Instructions

Neutrol® 272 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

Neutrol® 272 is non-inflammable.

Shelf Life

Neutrol® 272 has a minimum shelf life of 12 months under normal ambient temperatures. It should be protected from temperatures above 40° C and stored in shade.

Packing

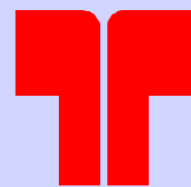
Neutrol® 272 is supplied in 5ltr, 20ltr and 250kg barrel.

Other Segments:

- Concrete Admixtures • Surface Treatments • Grouts & Anchors • Repair & Rehabilitation
- Protective Coatings • Industrial Flooring • Waterproofing • Sealants • Adhesives

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