

## Conplast Mortarplas

### USES

**Improves workability and trowelling properties of sand/cement mortar mixes during application and increases frost resistance for bricklaying, pointing and rendering.**

### ADVANTAGES

Eliminates use of lime in masonry applications. Saves storage space and failures due to unsound lime.

Improves moisture retention and bond strengths.

Makes mortar frost resistant.

Highly economical. Maximum yield of up to 20%

Improves harsh sands.

Can be used in colored mortars.

### DESCRIPTION

Conplast Mortarplas is supplied as a light brown colored liquid which mixes readily with water in any proportions. It is based on polymerized resins and is free from calcium chloride and similar salts.

When added to mortar Conplast Mortarplas entrains a controlled quantity of air which imparts greater workability and cohesion to the mortar and increases its durability once set. Use of Conplast Mortarplas reduces thermal movement and drying shrinkage in the cured mortar.

### STANDARDS

Conplast Mortarplas complies with BS 4887 Mortar Plasticisers. It conforms with the recommendations of BRE Digest 160.

### PROPERTIES

**Calcium Chloride Content:** Nil. Conplast Mortarplas can be used in conjunction with CONPLAST NC chloride- free accelerator (see separate data sheet) to obtain acceleration of set during winter working. CONPLAST NC should be added first, followed by the Conplast Mortarplas.

**Compatibility with Other Admixtures:** Conplast Mortarplas should not be mixed with any admixtures unless advised by our technical department.

**Compatibility with Cements:** Can be used with any type of Portland, super sulphate or blast furnace cement. For advice on use with other types, consult our technical department.

**Setting Time:** There is no significant effect on the setting time of mortars.

**Plasticising Action:** Conplast Mortarplas entrains a controlled amount of microscopic air bubbles which increase cohesion and provide lubrication to the sand 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:** The air entrainment appreciably increases the frost resistance of the fully cured mortar. The use of an air entraining plasticiser also improves the frost resistance of fresh mortar and is recommended in BRE Digest 160.

### PRECAUTIONS- HEALTH & SAFETY

Conplast Mortarplas is mildly alkaline. Avoid unnecessary contact with the skin. Accidental splashes to the eyes should be washed immediately with plenty of water and medical treatment sought.

### INSTRUCTIONS FOR USE

#### Mixing

Conplast Mortarplas may be added directly to the sand/cement/water mix or, where more convenient may be pre-mixed with the gauging water. Mechanical mixing is to be preferred but thorough manual mixing gives acceptable results.

#### Dosage

Conplast Mortarplas Drums mixes. Direct to the mix: 0.15 – 0.30 litres of Conplast Mortarplas for each 50 kg of cement. To the gauging water: 0.75 – 1.50 litres of Conplast Mortarplas to 200 litres of water. The nature of the sand will determine the optimum amount necessary; a plastering grade will require less and a coarse washed sand more. Site trials are recommended to determine the practical dosage in each case. Average dosage in 1 – 6 mix, 4.5 litres Conplast Mortarplas is sufficient for 5,000 bricks.

**Overdosing** of Conplast Mortarplas will result in increased workability and air entrainment.

**Cleaning** Spillages of Conplast Mortarplas should be removed with water.

#### MIX DESIGN

| Application                                                                                                                                  | Normal Mix |      |      | Mix with Conplast Mortarplast |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------|-------------------------------|------|------|
|                                                                                                                                              | Cement     | Lime | Sand | Cement                        | Lime | Sand |
| For concrete bricks + blocks, clay bricks + blocks, externally or internally<br>Externally for high strength/ low shrinkage sand-lime bricks | 1          | 1    | 6    | 1                             | -    | 6    |
| Low strength for light-weight blocks and high shrinkage sand -lime bricks                                                                    | 1          | 2    | 9    | 1                             | -    | 8    |
| For high strength engineering bricks                                                                                                         | 1          | 1-4  | 3    | 1                             | -    | 3    |
| General pointing of bricks and blocks                                                                                                        | 1          | -    | 2    | 1                             | -    | 3    |
| General rendering of bricks & blocks                                                                                                         | 1          | 1    | 6    | 1                             | -    | 5-6  |

**STORAGE** Minimum shelf life of 12 months provided the temperature range has not exceeded 20°C to 35°C. If these conditions have been exceeded in any respect, the supplier should be contacted for advice.

**PACKAGING** Conplast Mortarplas is supplied in 1L and 4L sizes.

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