

# TECHNICAL DATA SHEET

## WP1 RENDER WATERPROOFER & PLASTICISER

### CONCENTRATED WATER RESISTING & RETARDING PLASTICISER

#### DESCRIPTION

**Magnamix** concentrated water resisting and retarding plasticiser admixture for use in sand:cement/rendering mortars.

#### FIELDS OF APPLICATION

As an admixture to exterior or above ground level cementitious render finishes.

#### FEATURES & BENEFITS

- ❖ Significant improvement in resistance to water penetration.
- ❖ Significant reduction in water demand of a given mix, resulting in reduction in water bleed both on the 'spot board' and insitu.
- ❖ Improved durability.
- ❖ Air entraining.
- ❖ Reduces onset of efflorescence.

#### TECHNICAL DATA/TYPICAL PROPERTIES

Specific Gravity: 1.09  
 pH: 11  
 Colour: bright yellow  
 Chloride Ion Content: <0.1% (w/w) of admixture  
 Freezing Point: 0°C

#### APPLICATION PROCEDURE

##### Preparation of Substrate

The substrate to which the render is to be applied should be thoroughly sound and uncontaminated. Any existing coatings must be removed prior to the commencement of rendering.

##### Mixing Application

**Magnamix** waterproofer and plasticiser should be premixed with the gauging water as per the instructions:

- ❖ Shake bottled before use
- ❖ Remove cap and gently squeeze bottle to dispense the product into the shot optic
- ❖ Measuring one 25ml shot, add to 5 litres of water and stir well
- ❖ Use the mixture as the initial mixing/gauging water for the mix.
- ❖ Further mixture should be slowly added to the mix until the desired consistency is achieved.

Selection of materials and correct mix designs relative to substrate and exposure levels are of paramount importance. The following tables give guidance on appropriate mix designs.

Selection of materials and application of the external render systems should be in line with BS5262 1991, Code of Practice for External Render and BS8000 Part 10:1995 Code of Practice for Plastering and Rendering.

**Care should be taken not to overmix.**

#### Mixes suitable for external renders

| Mix Designation | Cement:Sand + Concentrated Render Admixture |
|-----------------|---|
| ii              | 1:3 to 4                                    |
| iii             | 1:5 to 6                                    |
| iv              | 1:7 to 8                                    |

#### Suggested mixes for external renderings relative to background exposure conditions and required finish

| Background Material       | Type of Finish                                    | First /Subsequent Undercoats |          |           |
|---------------------------|---|------------------------------|----------|-----------|
|                           |   | Severe                       | Moderate | Sheltered |
| Dense, Strong, Smooth     | Wood Float Scraped or Textured Roughcast Dry Dash | ii                           | ii       | ii        |
|                           |   | ii                           | ii       | ii        |
| Moderately Strong, Porous | Wood Float Scraped or Textured Roughcast Dry Dash | iii                          | iii      | iii       |
|                           |   | ii                           | ii       | ii        |
| Moderately Weak, Porous   | Wood Float Scraped or Textured Dry Dash           | iii                          | iv       | iv        |
|                           |   | iii                          | iii      | iii       |

| Background Material       | Type of Finish                                    | Final Coat |          |           |
|---------------------------|---|------------|----------|-----------|
|                           |   | Severe     | Moderate | Sheltered |
| Dense, Strong, Smooth     | Wood Float Scraped or Textured Roughcast Dry Dash | iii        | iii      | iii       |
|                           |   | ii         | ii       | ii        |
| Moderately Strong, Porous | Wood Float Scraped or Textured Roughcast Dry Dash | iii        | iv       | iv        |
|                           |   | ii         | ii       | ii        |
| Moderately Weak, Porous   | Wood Float Scraped or Textured Dry Dash           | iii        | iv       | iv        |
|                           |   | iii        | iii      | iii       |

Admixture should be used to full effect by reducing the water/cement ratio, a reduction in water content up to approximately 20% is achievable compared to an unplasticised mix. **Care should be taken not to overmix.**

**DOSAGE** 25ml-50ml per 25 kilos of cement.

**EQUIPMENT** Mixes may be prepared using either mechanical or hand mixing techniques.

**PACKAGING** Available in 1 litre containers.

**STORAGE** Protect from frost. Shake before use.

**SHELF-LIFE** Up to two years when stored at normal temperatures in accordance with the manufacturer's instructions.

**WATCHPOINTS** **Magnamix** render waterproofer should not be used in structural concrete.

**Do not pre-mix Magnamix render waterproofer with other additives.**

If two or more coats of render are to be applied, each subsequent coat should be no thicker than the preceding coat. It is essential that where a coat of render is to be overcoated with a further coat of render, that the surface is thoroughly keyed prior to drying.

**Care should be taken not to overmix.**