

# RENDAMIX

## Waterproofer, Plasticiser & Retarder

### Description of Product

RENDAMIX is a tripe action air entraining, chloride free liquid/gel for waterproofing, plasticising and retarding the setting time of render mixes, such as roughcast, harling and dashing. RENDAMIX also acts as a salt inhibitor and may be used internally after the installation of a DPC system. Tested to EN943/3 air entraining properties.

### Typical Uses

As an admixture to exterior or above ground cementitious render finishes such as dashing, harling, rough cast and internally after installation of injection DPC's.

### Features and Benefits

- The utilisation of RENDAMIX's air entraining and retarding properties allows larger working areas to be covered in a single application process.
- 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 in situ.
- Improved durability.
- Inhibits transmission of hygroscopic salts.
- Enhances insulation properties.

### 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. When the substrate is found to be highly porous, long term bond and durability can be improved by the use of a bonding slurry consisting of cement and FEBOND SBR mixed at 1-2:1. This should be applied to the prepared substrate immediately prior to application of the render, which should be applied 'wet on wet'.

#### Mixing

Selection of materials and correct mix designs relative to substrate and exposure levels are of paramount importance. The tables below give guidance on appropriate mix designs. Selection of materials and application of the external render systems should be in line with BS 5262 1991, Code of Practice for External Render and BS8000 Part 10:1995 Code of Practice for Plastering and Rendering.

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

Background Material	Type of Finish	First and Subsequent undercoats		
		Severe	Moderate	Sheltered
Dense, Strong, Smooth	Wood Float	II	II	II
	Scraped or Textured	II	II	II
	Roughcast	II	II	II
	Dry Dash	II	II	II
Moderately Strong, Porous	Wood Float	III	III	III
	Scraped or Textured	III	III	III
	Roughcast	II	II	II
	Dry Dash	II	II	II
Moderately Weak, Porous	Wood Float	III	IV	IV
	Scraped or Textured	III	IV	IV
	Roughcast	III	III	III
	Dry Dash	III	III	III

Background Material	Type of Finish	Final Coat		
		Severe	Moderate	Sheltered
Dense, Strong, Smooth	Wood Float	III	III	III
	Scraped or Textured	III	III	III
	Roughcast	II	II	II
	Dry Dash	II	II	II
Moderately Strong, Porous	Wood Float	III	IV	IV
	Scraped or Textured	III	IV	IV
	Roughcast	II	II	II
	Dry Dash	II	II	II
Moderately Weak, Porous	Wood Float	III	IV	IV
	Scraped or Textured	III	IV	IV
	Roughcast	III	III	III
	Dry Dash	III	III	III

**Mixes suitable for external renders**

Mix Designation	Cement:Sand + RENDAMIX
I	N/A
II	1:3 to 4
III	1:5 to 6
IV	1:7 to 8
V	N/A

**NB:** Types of finish requiring strong mix designs should not be considered for weak backgrounds.

In seaside or marine environments where soluble salts in the background may be present sulphate resisting cement should be used as an alternative to OPC.

### Addition

RENDAMIX is supplied ready to use and should be added to the mixing water at a rate of one part RENDAMIX to 20/40 parts water. This corresponds to a dosage rate of 500 ml to 1000 ml per 50 Kg of cement. The plasticising action of RENDAMIX 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

500 ml to 1000 ml per 50 Kg kilos of cement.

Revision 2 – 28/3/11

**Storage**

Protect from frost. Stir before use.

**Shelf Life**

2 years from date of manufacture.

**Performance Data**

Specific Gravity	1.02
pH	12
Chloride Ion Content	< 0.1% (w/w) of admixture (nil)
Freezing Point (°C)	-3°C
Water Absorption (dosage 750ml/50kg cem)	5% compared to 15% for a standard 4:1 sand/cement mix
Set time ASTM C403: 1990 (dosage 750ml/50k cem)	100% longer than control.


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11  0086-CPD-565048  EN934-3 (2009) Air entraining/plasticizing admixture for masonry mortar EN934-3, T2. Chloride content: <0.1% w/w Alkali content : 1.2% by mass