

# INSTACEM POLYMER WALL RENDER AND POINTING MIX

## Introduction

**INSTACEM Waterproof Render/ Mortar** is a polymer modified, cementitious mortar/plaster specifically designed to produce a non-shrink, weather resistant, high strength wall render/repair and pointing material. **INSTACEM Waterproof Render** is factory made to BS EN ISO 9001:2000 is user friendly (just add water) and contains no toxic or harmful chemicals.

## Components

A single, fully blended, cement-based system incorporating shrinkage compensating and adhesive components to give water-tight render/repairs and pointing with excellent long-term service

## Appearance

Grey, cement based mortar which when water is added forms a soft workable pointing mix or plastering-grade render.

## Uses

- General-purpose mortar with good plastic properties for pointing, repair work or rendering.
- To provide a weather proof, highly durable render for all building and construction work
- To render houses, commercial and industrial buildings, particularly where waterproofing and high impact resistance is required
- To protect buildings against adverse weather conditions, freeze thaw cycles and driving rain and winter road sprays
- To produce an aesthetically pleasing, even-textured coat to brick or block-work surfaces

## Benefits

- Pre-blended, ready to use, easily applied by trowel
- Shrink resistant
- Micro-fibre reinforced to give excellent impact resistance
- Water vapour permeable, does not promote condensation
- Excellent 'open time' enabling continuous wet-edge application
- Permanent render – effective throughout the lifetime of the structure
- Economical, non toxic and safe to use

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## Typical technical data

Density 2150kg/m<sup>3</sup> crushing strength at 7 days over 20Mpa (N/mm<sup>2</sup>) at 28 days over 30Mpa. An initial set (Vicat) approximately 4 hours at 20°C and final set (Vicat) approximately 12 hours at 20°C

## Yield

1 bag of 25kg **INSTACEM Waterproof Render** will produce approx. ½ m<sup>2</sup> at 8 – 9 mm per coat. As a pointing mix allow 1 bag per 50 linear metres. Always trial on actual job to determine quantity.

## Mixing instructions

Add **INSTACEM Waterproof Render** powder to the required amount of water in a clean mixing container while stirring thoroughly until an easily worked, slump-resistant render is obtained. The mix proportions are approximately 10 parts of **INSTACEM Waterproof Render** into 1 part of clean, drinkable quality water. A whole 25kg bag requires approximately 2½ litres of water. Use less water for thick applications or a stiffer consistency. The mixed **INSTACEM Waterproof Render** mix has a pot life of approximately 2 hours at 18 – 20°C

## Preparation

**INSTACEM Waterproof Render** can be applied to dry or damp surfaces if they are stable, firm and free of dust, dirt, atmospheric pollution, oil and other barrier materials. An effective degreaser is recommended for removing oil, wax, etc from the surface. Any residues of loosely adhered existing surface coatings, render, etc must be removed from the surface before applying **INSTACEM Waterproof Render**. Settlement cracks can be filled with **INSTACEM Waterproof Render**, however, such treatment will not guarantee the elimination of these cracks caused by structural movement. Small cracks should be enlarged so that better contact of the material is obtained. Exposed metal reinforcement etc should be given adequate corrosion protection. A trial application is always recommended in doubtful cases.

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## Application

**INSTACEM Waterproof Render** can be applied directly up to 9mm thick in one application using a mixer-pump and finishing trowel. Where thicker applications are required, eg: filling deep cracks, holes and surface depressions or deep pointing work, the mixed mortar can be extended by ¼ vol of suitably graded sharp sand, eg: 2-1mm or 1-0.5mm. Where necessary, a second thinner application of normally mixed **INSTACEM Waterproof Render** can be applied on top of the sand filled coat once it has become sufficiently firm. **INSTACEM Waterproof Render** should not be applied at temperatures below 5°C. The drying and hardening of the mortar is dependent on site conditions and is retarded under conditions such as low temperatures and high humidity. In all cases use standard sand:cement render/pointing methods and good practice site techniques.

## Packing

3 ply Kraft paper bags with 25kg net weight. **INSTACEM Waterproof Render** has a shelf life of 12 months if stored in dry conditions.

## Independent Test Data

|                                    |   |
|------------------------------------|---|
| Crack Formation                    | No cracks   |
| Adhesive strength                  | N/mm <sup>2</sup> was 2.13 @ 7 days load resistance                               |
| Flexural strength (Prism 4x4x16cm) | 7 days 7.5, 28 days 12.4 N/mm <sup>2</sup>  |
| Compressive strength               | 7 days 48.9, 28 days 56.58 N/mm <sup>2</sup>                                      |
| Workability                        | Mixing properties – good<br>Consistency – good, smooth<br>Workability – very good |
| Abrasion resistance                | Taber abrasion type 352 only 0.56 gram wt loss – excellent status decrease .56g   |
| Surface hardness                   | 1 day evaluation 3 mm indent test – result, very hard                             |

‘These test results show good workability and the quality of **‘INSTACEM Waterproof Render’** is really very high.’