

NOMENCLATURE:

BASE PLASTER

Application of Grey base plaster (12mm to 25mm– Single layer) on masonry & concrete works.

Application of **Ressi PlastoRend 120** or equivalent over the surface of block masonry at a thickness of 12mm to 25mm over block masonry & RCC Concrete. The surface required, material specification & application methodology are specified in the appendix.

A Metal Mesh is to be applied over the RCC and Block masonry surfaces as per the consultants' specifications. The Base grooves are to be executed as per the drawings provided.

Appendix

Working parameters

All External Rendering works should be conducted following the perimeters defined by BS EN 13914-1.

The Material prerequisites for the external plaster

1. The material to be used should be of a cementitious nature.
2. It should be a factory manufactured and packed polymer modified dry mortar.
3. It should have a maximum aggregate size of no more than 3.36 mm.
4. The maximum applicable thickness of the material should not exceed more than 18mm to 25mm in a single coat application.
5. The Material should comply to category CS III or above as defined in BS EN 998-1.
6. The Material should have a minimum flexural strength 1 N/mm² (To be tested as per BS EN 1015-12).
7. The Material should have a minimum compressive strength of 4 N/mm² (To be tested as per BS EN 1015-11).
8. The water application for the dry mortar should not be less than 17% & Maximum water content should be 27% (Minimum Water powder ratio of 0.17 & Maximum Water powder ratio of 0.27)
9. The wet mix life of the material should a minimum of Approximately 2 hours (Tested as per BS EN 1015-9)
10. The material for external rendering & internal plastering should be designed in a way that it can easily be applied as per the application spectrum defined by BS EN 13914-1 & BS EN 13914-2

Mixing and application of material

For manual hand application, an electric mortar mixer should be used. The vessel used for mixing should be clean, uncontaminated, and non-corrosive. The dry mortar has to be added over the pre-measured mixing water. The Premixed dry mortar material to be used for External rendering and internal plastering should be mixed using sweet potable water. Further mixing and application techniques should be done as per the manufacturers' guidance and onsite support.

It is recommended to use a Plaster / Render Mixing and spray machine to mix and spray the dry mortar material for rendering and plastering purposes. If not, proper mixing techniques for the material need to be followed. Further application guidance with regards to Masonry and surface preparation should be taken from BS EN 13914-1 & 13914-2 or otherwise specified by the consultant.

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Summary of Material requirements

Factory Manufactured Dry Mortar

Test	Unit	Testing Method	Result
Water Ratio	%		0.17 Minimum & 0.27 Maximum
Water Retention	%	BS EN 1015-18	Minimum 90%
Spread Measure	mm	BS EN 1015	Minimum 16mm
Air content	%	BS EN 1015-7	Between 11% and 17 %
Flexural Strength	At 28 Days	BS EN 1015-11	Minimum 1 N/mm ²
Compressive Strength	At 28 Days	BS EN 1015-12	Minimum 4 N/mm ²
Pull off Strength	At 28 Days	BS EN 1052-3	Minimum 0.35N/mm ²
Setting Time	Hours	BS EN 1015-9	Approximately 2 Hours
Maximum Aggregate size	mm	BS EN 1015-1	Not More than 3.36mm