

# NOMENCLATURE:

## PIGMENTED PLASTER 2MM AND BELOW

### Application of Pigmented Plasters (2mm) on rough base plaster works

Application of **Ressi PlastoRend 100** at a thickness of 2mm in different colors at varying lengths.

Color combination and texture is to be applied as per the consultants' recommendation. Material & application specifications as per appendix.

### Appendix

#### Surface requirements.

For External Rendering BS EN 13914-1 should always be taken into consideration.

The surface should be of a cementitious nature and rendered to a leveled surface. The finish of the surface must be of a rough nature so that further cementitious material can be easily applied on top of the externally rendered surface. Special care should be taken for surface cracks and they should be satisfied appropriately prior to the application of the decorative render / Pigmented plaster.

Further guidance for external Color Crete / Fair Face Works with regards to the surface preparation and subsequent works should be conducted as per the onsite guidance of the consultant and the manufacturer whose subsequent material is applied onto the prepared surface.

Base surfaces which are smooth do not absorb water and unable to receive subsequent layers of cementitious materials will be rejected.

#### Material Requirements for Color Crete, Fair Face thin applied 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 1mm.
4. The maximum applicable thickness of the material should be between 4mm to 6mm.
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/mm<sup>2</sup> (To be tested as per BS EN 1015-12).
7. The Material should have a minimum compressive strength of 4 N/mm<sup>2</sup> (To be tested as per BS EN 1015-11).
8. The water application for the dry mortar should not be less than 17% and 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 plastering and internal rendering 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.
11. The color fastening & UV stability of the material should comply with the perimeters as defined in EN 12878 with regards to pigment stability perimeters. Pigments shall conform to EN 12878 & be used only if they are proven to be satisfactory. Pigments shall be stable, unaffected by light or exposure to light. They shall not easily be leached out by water nor shall they have any adverse effect upon the cement or other constituents of the rendering / Plastering.

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### Summary of Material Specification

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 <sup>2</sup>
Compressive Strength	At 28 Days	BS EN 1015-12	Minimum 4 N/mm <sup>2</sup>
Pull off Strength	At 28 Days	BS EN 1052-3	Minimum 0.35N/mm <sup>2</sup>
Setting Time	Hours	BS EN 1015-9	Approximately 2 Hours
Maximum Aggregate size	mm	BS EN 1015-1	Not More than 1mm

### 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, & non-corrosive. The dry mortar must be added over the pre-measured mixing water. The Premixed dry mortar material to be used for internal rendering and external plastering should be mixed effectively using sweet potable water. Further mixing & 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 & 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 & surface preparation should be taken from BS EN 13914-1 & 13914-2 or otherwise specified by the consultant.