

NOMENCLATURE:

COLORED PLASTER 12MM TO 25MM

Application of Pigmented Plasters / Decorative Plasters (12mm to 25mm) on masonry / concrete & base plasters

Application of **Ressi PlastoRend 120 C** or equivalent at a thickness between 12mm to 25mm applicable by a dry mortar spray machine over levelled masonry surface, concrete surface or levelled cemented plaster surface of appropriate strength as per the approval of vendor or site engineer.

Appendix

Surface requirements.

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

The surface should be of a cementitious nature & levelled or rendered to a leveled surface with a tolerance of a maximum 12mm. 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 & they should be satisfied appropriately prior to the application of the decorative render / Pigmented plaster.

Material Requirements for Color Crete, Fair Face or pigmented 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 3.36mm.
4. The maximum applicable thickness of the material should be between 12mm to 25mm.
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)

The work is to be conducted as per the aesthetic finish approved by the consultant. Material & application specifications as per appendix.

Further guidance for external Color Crete, Fair Face Works, and pigmented plaster 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.

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 & 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 requirements

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

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 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 and application techniques should be done as per the manufacturer's 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 and manufactures guidance should be taken into consideration.

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 & vendor.