

## High Performance Manual Ready Mix Mortar and Plastering Materials

### DESCRIPTION

**DUPLAST** is precisely engineered dry mixtures that require only the addition of water to become ready for application. These pre-mixed materials have become a staple in modern construction, replacing traditional on-site mixing methods. They are manufactured under controlled conditions, ensuring uniformity and consistent quality in every batch.

### RECOMMENDED USE

**DUPLAST** is used for general purpose manual time saving plastering & mortar works to mentioned suitable manner:

- Plastering
- Masonry Work
- Tile Adhesive
- Rendering
- Repairs
- Floor Screeding

### ADVANTAGES

- Used in place of traditional plastering
- Consistent quality made
- Reduced water absorption hence enhanced durability
- Uniform and smooth finish
- Quality plastering since it does
- Convenient to apply
- Faster completion of work
- No Wastage
- Reduce Construction Costing
- Very minimal curing required

### APPLICATION INSTRUCTION

#### Surface preparation

The block work or concrete shall be properly cured, clean and free from all dirt, oil, grease, old loose peeling paint. The substrate should damp and excess water to be swept off. minimum curing time is 2-3 days required.

### Mixing

- Mix thoroughly **DUPLAST** – Ready Mix Plaster.
- Place clean, potable water
- Add **DUPLAST** – Ready Mix Plaster.
- Use approximately 6.5 Liters of water for 40 kg Ready Plaster
- Mix with trowel or with a slow speed motor to get a smooth and travelable consistency.
- Need to adjust consistency if necessary
- Re-mix and apply using appropriate notching trowel

### Application

- Spread a slurry bond coat of **DUPLAST** – Ready Mix Plaster slurry over the block work or concrete surface.
- Apply the plaster evenly to the required thickness and finish using straight edge.
- Press timely to work into surface

**DUPLAST** – Ready Mix Plaster required very minimal curing 2-3 days based on the surface

### PACKAGING

**DUPLAST** – Ready Mix Plaster is available in 40kg bag.

### Color

Grey Powder

### Coverage

Coverage is based on smoothness and evenness of the substrate, type of masonry work and the thickness of mortar used. A coverage of 17-20 SFT. per bag of 40 Kg is received when applied with a thickness of 10-12 mm.

Prepare plaster by adding **DUPLAST** – Ready Mix Plaster to 15-20% of water and not vice versa.

#### Statement of Responsibility (Disclaimer)

The technical information and application advise are based on present state of our best scientific and practical knowledge. As the information herein of a general nature, no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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PROPERTY / TEST METHOD	SPECIFICATIONS	TYPICAL VALUES
Initial Setting Time – ASTM C-266	≥ 50 Minutes	65 Minutes
Final Setting Time – ASTM C-266	≤ 360 Minutes	260 Minutes
Compressive strength @ 28 Days – EN 1015-11	CS I : 0.4 – 2.5 N/mm <sup>2</sup> CS II : 1.5 -5.0 N/mm <sup>2</sup> CS III : 3.5-7.5 N/mm <sup>2</sup> <b>CS IV : ≥ 6.0 N/mm<sup>2</sup></b>	9.0 – 11.0 N/mm <sup>2</sup>
Flexural Strength @28 Days – EN 1015-11	≥ 1.5 N/mm <sup>2</sup>	2.0 – 3.0 N/mm <sup>2</sup>
Tensile Adhesion Strength @ 14 Days – EN 1015 -12	≥ 0.50 N/mm <sup>2</sup>	0.70 – 0.90 N/mm <sup>2</sup>
Capillary water Absorption – EN 1015-18	<b>W0 : Not Specified</b> W1 : c ≤ 0.4 Kg/m <sup>2</sup> .min0.5 W2 : c ≤ 0.4 Kg/m <sup>2</sup> .min0.5	0.50 – 0.60 N/mm <sup>2</sup>
Water Retentivity – BS 4551 -1	≥ 95 %	96-98 %

### Troubleshooting

Problem	Possible Reasons	Recommendations
Mix is not properly adhering to substrate	Water taken is not proper Mixing with water is not proper Wetting is not done of substrate Mix has lost its plasticity and is set before application Substrate wasn't cleaned or hacked prior to application	Use appropriate recommended water content Mix properly. Use of slow speed stirrer is recommended. Do proper wetting before application Use mix within 90-Minutes Clean the surface properly and hack it (if required)
Horizontal Cracks are Observed on Plastered Surface	Coat applied is over and above recommended thickness Curing is not done, post application	Apply in coats of not more than 12mm thickness Do curing of the surface for 7 days, atleast once a day
Wall Joints are Visible on Plastered Surface	Coat applied is very thin Different rate of suction between the plaster and the bricks/blocks	Apply proper thickness
Cracks are observed between ceiling and wall	Combination of two different material may result into cracks	Do grooving between ceiling and wall plaster or use fibre mesh between wall, column & ceiling
Plaster debonding or chipping	Surface was not properly prepared i.e. Pre-wetting or cleaning of the surface was not done prior to application	Clean the surface properly before application Pre-wet the surface to remove dust and other foreign particles

### TECHNICAL SUPPORT

**DUPLAST** – Ready Mix Plaster offers a comprehensive range of high performance, high quality of ready mix plastering product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-user and contractor, as well as on-site technical assistance.

### STORAGE/SHELF LIFE

**DUPLAST** – Ready Mix Plaster should be stored on pallets in dry conditions. Under these conditions, the product will have a shelf life of 12 months.

### PRECAUTION

**DUPLAST** – Ready Mix Plaster should not be in contact with skin and eyes. Avoid inhalation of dust during mixing. Wear gloves, goggles and dust mask.

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