

## TECHNICAL DATASHEET

# READY MIX MORTAR



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## PRODUCT INTRODUCTION

ASCOLITE Ready Mix Mortar is a premixed cement based solution to substitute for the traditional site mix wall plaster. Only water has to be added with premix before plastering. The solution consists of processed sand which is dried, graded & distributed as per particle size and proportionately mixed with cement and water soluble polymers which act as additives. Also available with PP /glass Construction Fiber for higher strength, Crack Resistance and durability. The application method requires mixing of water before application and the mix is ready for plastering. ASCOLITE Ready Mix Mortar can be used for both external and internal plastering.

ASCOLITE Ready Mix Mortar comes in two variants:

- Ready Mix Mortar without PP/Glass Fiber
- Ready Mix Mortar with Special formulated PP/ Glass Construction Fiber.

## SUBSTRATE WHERE IT CAN BE APPLIED:

1. Fly ash Blocks (Aerated Autoclaved Concrete Blocks)
2. Aluminium framework RCC Wall.
3. Fly ash Brick Walls
4. Clay Brick Walls
5. Stone Walls
6. As Ceiling Plaster

## READYMIX MORTAR COATS

1. **Internal:** 10-15 mm single coat is recommended for internal plaster covering.
2. **External:** Two coats are recommended to cover the external side of walls.

Base coat of 10-15 mm and Finish coat of 8-10 mm to get a total thickness of around 20- 22 mm, further depending upon site conditions. After base coat, minimum 2 to 3 days curing must be done before application of finish coat.

## TECHNICAL PROPERTIES

PARAMETER	VALUE
Max Aggregate Size	3.5 mm down
Retention % on Sieve	3.35 mm 0
	2.36 mm 0-6
	1.00 mm 40-50
	600 micron 50-60
	300 micron 60-70
	150 micron 70-80
	90 micron 75-80
Bulk Density	1500-1600 Kg/m <sup>3</sup>
Compressive Strength@28 days as per IS-2250/ ASTM C-109 using 50 KN CTM	≥ 10 N/mm <sup>2</sup>
Pull Off Adhesion Strength@ 28 days on Concrete as per ASTM D 4541	≥ 0.60 N/mm <sup>2</sup>
Silt Content in Sand after Grading as per IS-1542	NIL
Soundness % as per IS-4031	≤ 0.04 %
Pot Life	30-60 Minutes depending upon Climatic Conditions at site.
Setting Time as per IS -4031	Initial : 4 Hrs ± 15 Minutes Final : 5 Hrs ± 15 Minutes

## COMPARISON WITH CONVENTIONAL METHOD OF SAND-CEMENT PLASTERING

PARAMETERS	ASCOLITE READY MIX MORTAR	CONVENTIONAL MORTAR
Saving of Time-Labor Cost	Fast Application as only water needs to be added. No Extra labor is required for sand gradation and cement mixing at site	Time Saving. Not Possible as screening of sand and mixing of individual components is required. For this purpose large number of labor is required
Quality Consistency	Consistency Quality due to PLC Controlled Process, Uniform Weights of individual raw materials from Batch to Batch	Unconventional Method, Quantity of RM and Mixing time varies so Quality consistency not possible
Shrinkage Cracks	Negligible Shrinkage Cracks due to the addition of Certain Additives	Significantly High Shrinkage Cracks are observed even after water curing
Handling and Storage	Easy Handling and Storage is possible at construction site. Bags can be easily counted, so stock figures can be properly maintained	With Conventional Method, Sand Storage and its Stock is difficult to Maintain
Technical Support	ASCOLITE provides complete support in terms of Free Mockup, testing at site like Pull of adhesion strength with detailed test Report. ASCOLITE Provide Mobile Testing Services	No Support from Sand and Cement & other material Supplier is expected
Sand Quality	Only Dry and well graded sand is used. Sand is free from Silt and other deleterious materials	Drying of sand and proper gradation is not possible at site. Sand comes with high silt
Rebond Loss and Efflorescence	Much Less as polymers added to ASCOLITE Ready Mix Mortars during manufacturing process provide cohesion property to the mix	Higher

## RAW MATERIAL SPECIFICATION/TESTING PROCEDURE REFERENCE:

Sand: IS-1542 & Internal Standard. OPC Cement: IS-12269

Fly ash: IS- 3812 Part-1

Additives: As per Internal Standard

## FEATURE-ADVANTAGE-BENEFIT

FEATURE	ADVANTAGE	BENEFITS
Required Compressive Strength	Increases Masonry Strength of the Wall	Better Long Term Durability of the Plaster
Raw Material are tested and accurately mixed with specific particle size and quantity	<ul style="list-style-type: none"> <li>♦ Minimum Shrinkage Cracks</li> <li>♦ Bags are of Consistent Quality</li> </ul>	Better Finish and Quality of the Plastered Wall.
Graded Dry Sand	High Coverage	Cost Saving
Technical Assistance	Our Technical representatives provide you're with services like sampling of products, doing site audits and are available for technical assistance	Higher Construction Efficiency
Premixed	<ul style="list-style-type: none"> <li>♦ Only water needs to be added before application</li> <li>♦ Easy Application</li> </ul>	<ul style="list-style-type: none"> <li>♦ No need to store different Materials</li> <li>♦ No need to maintain entire mix</li> </ul>
Better Adhesion Strength	Reduces rebound loss	Saves costs
Equal Size Packaging in bag form is provided	Easy to maintain stock	Reduces space required for storing the material
Available round the year	No need to store materials and makes it easier for material planning	Reduces storage costs and facilitates on timely completion of work

## SURFACE PREPARATION & APPLICATION GUIDELINES:

- 1) **Concrete Block Jointing:** All Concrete and AAC Blocks Joints must be covered with a chicken wire mesh.
- 2) **Wall Wetting:** Dampen the Wall before application of Plaster. For application on concrete and for better adhesion use ASCOLITE Ascoplast Bond / Gypbond.
- 3) **Mix Preparation:** In 6-7 Lit of Potable water, add 1 Bag of 40 Kg of Mortar.
- 4) **Leave to React:** Leave the mix to react for 5-10 Minutes and remix before use.
- 5) **Remixing:** Machine or Hand Mixing should be done for 5-10 Minutes.
- 6) **Apply on wall:** The Mixture should be thrown on wall. Ensure leveling with the help of tools.
- 7) **Second Coat:** If Second is required, ensure grooving on first coat to provide to provide good grip for second coat.
- 8) **Leveling:** After final Coat, ensure proper leveling with the help of appropriate tools.
- 9) **Water Curing:** After the plaster is dry, curing should be done 2-3 times a day for 7 days minimum.
- 10) **Packaging:** 40 Kg bags.
- 11) **Shelf Life:** 6 Months from the date of Manufacturing.
- 12) Recommendation to use with other ASCOLITE Products.
- 13) For better Adhesion strength and reduced water absorption, use Fixobond AD in Ready Mix Mortar @ 30-60 ML /40 Kg Bag.
- 14) For reduced water Permeability in external plaster applications, use Ascoproof IW+ (integral water proofing compound) @ 10-15 ml /40 Kg Bag of Ready Mix Mortar.

### DISCLAIMER:

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