

Getting Started

Thickness:

Recommended thickness of applied plaster should be 3 mm to 15 mm max, however higher thickness plaster can be applied in more than one application.

Fixtures:

Once the plaster has set, you can put a fixtures of varying weights. Smaller ones can be supported by using steel hooks and pin while heavier frames and objects can be accommodated with plugs and screws.

Application Methods:

Easy plasterers are applied using hawk and trowel method as per recommended practice where the thickness in one application should not exceed 15 mm. It can be applied on most existing surfaces. The suitability of particular background should be considered in relation to its strength, suction, bonding properties, shrinkage or thermal movement characteristics, water and soluble salt content.

Handling and Storage:

Always back-fold bag after taking out the material to keep it free moisture and atmosphere. Bags should be stored in dry place, and free from water, after using the powder from the bag, the incomplete bag should be tied and closed. Consignments should be used in strict rotation. Wooden platforms should be used while storing on floor to avoid moisture adsorption.

Saving Tips & Site Works:

The background to be plastered should be thoroughly brushed with broom to remove dust and loose mortar on the existing wall surface. For ceilings, it is most important that the concrete slab should be clean, dry and free from mould oil.

It is advisable to wet the wall and ceiling surface to achieve good workability.

Always mix powder to water and not water to powder, and powder should be thoroughly mixed with water and should be free from lumps and foreign material before use.

Normal consistency or water plaster ratio of the plaster should be 0.65-0.70 i.e. for 1000 grams of powder 650-700 grams of water is recommended for better performance.

Only the required material should be prepared, as per the area of application is ready to plaster.

Set plaster shortens the setting time and thus reduces the workability.

Do not add water to delay the setting time, after the initial setting time is completed, as the material will lose its bonding properties and strength.

Suggest that plaster of Paris masons to do good workmanship as compared to pop works.

For top coat after applying of Gypsum vermiculite plaster, a thin coat of same material should be prepared, in paste form and should be applied by using putty blade to provide a smooth finish, do not apply water brush on the finished surface.

After complete drying (which depends on the thickness of the plaster applied), usually 3-4 days, the surface can be painted with any water soluble paint, such as emulsion paint, except cement paint.



Keerat and Company - Uttam Gypsum

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| Ultimate | Tough | Trust worthy | Advanced | Modern |



Introduction

Keerat and Company has established itself as Distributors and Suppliers of Plaster of Paris (POP) and Gypsum. Our products are sold under our own brands "Uttam Gypsum-Stucco", "Uttam Gypsum-One coat" and "Uttam Gypsum-One Coat Elite". We offer commercial grade POP (2 no POP), Stucco, fine plaster, superfine plaster, gypsum powder, vermiculate gypsum powder, one coat gypsum, universal gypsum, gypsum board and POP sheets.

Advantages

- Aesthetics**
Uttam gypsum gives excellent finish on walls & provide smooth & interior finish on walls & ceilings. Walls give pleasant appearance. Also grooves, sharp & round edge & other decorative finishes are possible due to easy workability.
- Time Saving**
Uttam gypsum plaster is very much time saving as it does not require any curing & it sets & drying is very fast compared to cement plasters. Hence less wastage of cement, labour & time.

- Thermal Insulation**
Uttam gypsum contains thermal insulation properties & low heat conductivity. Keeps room cool & ensures energy & power saving.
- Pre mixed Plaster**
Uttam gypsum plasters are premixed with natural gypsum & other ingredients & hence does not need Cement, Sand, Neeru, POP, Curing, White wash on it.
- Earthquake Resistance**
Uttam gypsum plasters having inherent properties of light weight of gypsum, There is always less dead load on structure & hence good for earth quake resistance.
- Sound Adsorbent**
Uttam gypsum plaster is having unique acoustical properties of absorbing airborne sounds & it is a leading material used for sound absorbent properties.
- Bonding properties**
Uttam gypsum plaster is having good adhesive & bonding properties & it can be applied on any walls like RCC ceiling, Clay bricks, AAC, Solid & hollow concrete blocks.
- Fire Resisting**
Uttam gypsum plaster is non-combustible & in event of fire, it will act as a barrier and will protect the RCC structure etc.
- Total Strengths**
Uttam gypsum plaster once it is set it exhibits high tensile & flexural strength. They are less prone to cracking, debonding due to thermal & tensile movements of background.
- Anti-fungus & termite free**
Uttam gypsum plaster does not allow any fungus or termite to mould growth inside walls & hence very much recommended for Hospitals & clinics.
- Shrinkage Cracks free**
Uttam gypsum plaster is having easy workability & due to pre mix plaster it is having uniform setting time. It does not shrink (unlike cement) during the drying out & hardening process & hence always free from inherent cracks.
- Ever lasting**
Uttam gypsum plaster contains no harmful chemicals & hence it retains its composition & structure for thousands year as testified by Egyptian pyramids & Greek structures.

Savings Chart

| | Normal Plaster * with P.O.P /sq.ft | Gypsum Plaster * /sq.ft |
|----------------------------------|------------------------------------|-------------------------|
| Material Cost of plaster/sq.feet | 12 Rs | 12 Rs |
| Labour cost for plaster/sq. feet | 8 Rs | 10.5 Rs |
| P.O.P. material Cost of /sq.ft. | 9 Rs | Nil |
| P.O.P. LABOUR for COST/SQ. Ft. | 8 Rs | Nil |
| Total Cost | 37 Rs | 22.5 Rs |

Net 38% Savings

* The above are indicative rates & may change time to time as per site conditions.

Our Products & Technical Specifications:- As per IS-2547 (Part I) 1976

| Products / Parameters | One Coat Elite | One Coat | Stucco |
|--|--|--|--|
| Technical Name | Hemihydrate Gypsum Plaster | Hemihydrate Gypsum Plaster | Hemihydrate Gypsum Plaster |
| Workability | Easy | Easy | Easier |
| Dry Bulk Density (Kg/m³) | 700 | 650 | 600 |
| Colour of finished Surface | Brownish Off White | Super Off White | Super White |
| Compressive Strength(kg/cm²) | 65-70 | 65-75 | 75-80 |
| Surface Smoothness | Smooth | Smooth | Very Smooth |
| Coverage at 13mm thickness (m²/1000kgs) | 70 / 13mm | 65 / 13mm | 90 / 6-8mm |
| Setting Time (mins) | 25-35 | 25-35 | 15-25 |
| Recommendation | One coat plaster to be directly applied on bricks/blocks | One coat plaster to be directly applied on bricks/blocks | Stucco plaster to be applied on plastered surfaces for fine finish |

Comparison between Uttam plast Gypsum plaster & Normal Cement plasters

| Traditional Sand- Cement Plaster | Uttam Gypsum Plaster | Advantages |
|--|--|--|
| After traditional plaster due to rough finish POP finish is required | No Pop finish required | No additional cost of POP finish & thus saves time & money |
| Non resistant to shrinkage cracks | Resistant to shrinkage cracks | Uttam plast gives Cracks free walls |
| Continuous monitoring required while mixing | No continuous monitoring required as it is pre mixed | Uttam plast being pre mixed plaster gives continuous finish on walls |
| Pre & Post curing in required on walls | No curing required | It saves time & wastage of water also |
| High percentage of wastage during application | Nominal wastage during application | Less amount of raw material wastage |
| Reflects sound & does not control humidity | Absorbs sound & controls humidity | Makes wall more soundproof |

Complete Plaster: Without Sand, Cement and POP

