

TECHNICAL DATASHEET

GYPSUM PLASTER

Gyplast and Gyplast+



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PRODUCT INTRODUCTION

ASCOLITE Gyplast+ is a processed gypsum based internal wall covering material which is produced as a result of calcination of raw gypsum in an automatic kettle under controlled temperature. The product is suitable for walls made of fly ash blocks, RCC and sand cement plaster. Traditionally, internal wall plastering consisted of a 2-step process of sand cement plastering finished with POP punning. With ASCOLITE Gyplast+ the tedious 2 step process is simplified by directly applying a single coat layer of our product, resulting in efficient internal wall plastering with a superior finish, better workability and higher coverage.

COMPARISON WITH CONVENTIONAL SAND-CEMENT PLASTER

PARAMETERS	ASCOLITE GYPLAST/GYPLAST+	CONVENTIONAL S-C PLASTER
Quality	Quality consistency	Not possible
Shrinkage Cracks	Negligible shrinkage cracks	Significantly high shrinkage cracks.
Wastage	No wastage	High wastage (due to high rebound loss)
Thickness	Lower thickness required	Higher thickness required
Coverage	Higher coverage	Lower coverage
Edges	Sharp edges possible	Not possible
Surface	Flat surface and attractive workability	Not possible
Water curing	Not required	Required
Thermal insulation	High	Lower
Compressive strength	≥ 10 N/mm ² @ 3-4 days oven drying as per method given in IS-2542	≥ 4 N/mm ² @ 28 days water curing

PRODUCT CHARACTERISTICS

PLASTER	GYPLAST	GYPLAST+
Appearance	Off white powder	Snow white powder
Coverage @ thickness 12-13mm	22-24 ft ² /bag of 25 Kg	23-25 ft ² /Bag of 25 Kg
Coverage @ thickness 7- 8mm	30-32 ft ² /bag of 25 Kg	31-33 ft ² /Bag of 25 Kg
Pot life	15 Minutes	15 Minutes
Whiteness	Normal	Better
Rigidness	Normal	Better
Water resistance	Average	High

FEATURE-ADVANTAGE-BENEFITS:

FEATURE	ADVANTAGE	BENEFIT
Controlled pot life and setting time	Convenient setting time for masons	Application is hassle free
Single coat	No need to apply the material in double coats as in sand-cement plaster	Cost and time saving
Lower density	Higher coverage	Cost saving
Technical assistance	Our technical representative provide you with services like sampling of products, doing site audits and are available for technical assistance	Higher construction efficiency
Higher compressive strength of material	More resistant to impacts	Better durability of plastered wall
Pre-mix product	No need to mix various materials, only water needs to be added	Time saving
Does not go through shrinkage or expansion process once it has been settled	Avoids shrinkage cracks	Better durability of plastered wall
Available round the year	No need to store materials and makes it easier for material planning	Reduces storage costs & facilitates on time completion work
Self-setting properties	No need for water curing	Saves water
Low thermal conductivity	Gives better thermal insulation to wall	Reduces energy costs
Better finishing	<ul style="list-style-type: none"> ◆ Higher brightness ◆ Material saving of paint and putty 	<ul style="list-style-type: none"> ◆ Very smooth finish ◆ Cost effective

FEATURE-ADVANTAGE-BENEFITS:

Thickness depends upon the surface to be plastered. Gypsum plaster is generally of thickness 10mm-12mm whereas ceiling plaster is of 8mm-10mm and maximum thickness of plaster needs to be kept approximately 15mm-16mm for a wall free of undulations.

COVERAGE:

i. For 12-13 mm thickness 23-25 ft²

ii. For 7-8 mm thickness 31-33 ft²

(Coverage can vary due to improper plumb and undulation in wall)

TECHNICAL SPECIFICATIONS:

PARAMETERS	Gyplast+	AsperIS-2547 Part- 1 {Amendment No.3, July-2011}
Dry bulk density Kg/m ³	650	
Setting Time	15 Min	10-30 Minutes
SO ₃ %	50-55%	35 Minimum
CaO %	33-40%	2/3 rd of SO ₃ % Minimum
LOI %	5-6%	4-9%
Residue on 150 micron sieve	Max 2%	Max 5%
Whiteness using diffused Reflectance Meter scale	90	-
Compressive Strength	12 N/mm ²	1 N/mm 2 Min. (Ref: IS-2547 Part- II)/ IS-2542 Part-1)

PRODUCT STANDART/REFERENCE:

IS-2547 Part-I -1976, Amendment No -03 July-2011.

IS-2542 Part-1

SURFACE PREPARATION & APPLICATION:

- 1) **Clean and wet:** Pre-wet the wall before application.
- 2) **Mixing:** For gyplast, take approximately 50% water and for gyplast+ take 70% water. First take water in a bucket and add the gypsum plaster slowly by mixing continuously.
- 3) **Blending:** Mix thoroughly to make a uniform smooth lump free paste.
- 4) **Level mark:** Put bull mark and ensure vertical level by using plumb bob and make marks at every 4ft.
- 5) **Reference mark:** By placing aluminum box plate on bull marks, fill the gap with gyplast/gyplast+.
- 6) **Application:** Apply fresh material paste on wall with the help of trowel/by hand.
- 7) **Leveling:** Level the material paste on the wall with help of aluminum box plate.
- 8) **Finishing:** Mix thin slurry and apply on leveled surface with trowel to get smooth finish.
- 9) **Drying:** Leave wall to dry for 2-3 days.
- 10) **Curing:** Avoid water curing.
 - Do not apply gypsum plaster in external surfaces exposed to direct rain or moist condition.
 - Fill all cavities in wall before application of gypsum plaster.

Packing: 25 Kg PP bag.

Shelf life: 6 Months.

Safety guidelines: Refer MSDS.

DISCLAIMER:

While the technical details & recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at www.ascolite.in. Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.