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INDIA GYPSUM PVT LTD (IGPL®) : GYPSUM PLASTER

General Concrete slab scenario

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. Sand Cement Plaster Mixture of the sand and cement has to be made at the site in different ratios a difficult process that requires constant monitoring. It is restrained by a mechanical bond either with a backing of concrete which has already undergone most of shrinkage or with brick / stone masonry which is practically immune from movement. This restraint to shrinkage causes a tensile stress in the plaster which is maximum at the skin. If the tensile stress is more than what can be borne by the mortar, cracks develop and extend gradually through the full depth of the plaster. In order to prevent this phenomenon it is necessary to limit the shrinkage either by limiting tensile stresses to those not exceeding the safe stresses that mortar can resist or by applying a plaster which creeps and does not crack.

Use of unsound materials, bad workmanship, and use of high water / cement ratio, freezing and thawing, thermal effect, heat of hydration, shrinkage stresses, structural stresses, alkali aggregate reaction, and sulphate action are some of the major causes of development of cracks in the cement sand plaster.

Hence, application of INDIA GYPSUM PVT LTD (IGPL®) : GYPSUM PLASTER is the correct decision.

INDIA GYPSUM PVT LTD (IGPL®) Plasters are the right choice of plastering for the following reasons:

1) It can be applied directly over the brick / stone masonry or concrete surfaces.
2) It is better than traditional plaster as it eliminates the two processes of Cement sand plaster & POP punning.
3) It does not require water curing
4) No shrinkage cracks
5) Faster Application (Reduced Construction schedule)
6) The use of light weight aggregates in the plaster mix help to improve the existing Thermal resistance
7) It is non-combustible (when tested in accordance with BS: 476: part 4:1970), therefore a good form of protection to the building structure.
8) It contains light weight aggregates which improve the bond to concrete, brick and stone masonry based
backgrounds
9) It attains high early strength

10) It is a premixed plaster, hence its use has reduced the requirement of supervision required for mixing as in the case of cement sand plastering.
11) Ready to paint in as little as 72 hours
Testing Standards Confirms to IS 2542 (Part I)-1964 for physical characteristics Confirms to IS 2547(Part I & II)-1976 for chemical characteristics

IGPL® gypsum plaster contains lightweight aggregate .Those aggregates are naturally occurring.. It contains around 2 to 5 percent of water which makes it expand, when heated to a temperature sufficient to soften it.

Precautions

1) Dissimilar expansion and contraction of RCC and brick / stone masonry could cause stresses and at times separation.
2) To reduce the separation cracks, use of IGPL® fiber mesh (at the junction) or use Grout Material is recommended.

Thanks & Regards,

Shankar Kumar

Quality Compliance – Head of Dept.
INDIA GYPSUM (P) LTD.