

**Description:**

STERLING<sup>®</sup> GYPOTECH is a one coat gypsum plaster for use on almost all Internal substrates, e.g. blocks, brickwork, or concrete. It is a lightweight, retarded hemihydrate, premixed gypsum plaster, with expanded perlite aggregates, requiring only addition of clean water to prepare it for use. It provides high-quality, durable, inert and smooth base for application of decorative finishes over internal walls and ceilings.

**Features:**

- Eliminates two-step process of Sand Cement Plaster and POP punning
- No shrinkage cracks
- Doesn't require water curing
- Non-combustible
- Use of light weight aggregates in the plaster mix help to improve the Thermal resistance.
- GRIHA and Greenpro Certified

**Chemical Composition**

Calcium Sulphate Hemihydrate : CaSO<sub>4</sub>. ½ H<sub>2</sub>O

**Drying Type**

Setting

**Identification & Packing**

STERLING<sup>®</sup> GYPOTECH is packed in PP bags.

**Available Sizes**

STERLING<sup>®</sup> GYPOTECH is supplied in 40Kg bags

**Shelf life time**

Approx. 3 months from the date of manufacturing when stored in dry conditions

**Standard Compliance**

IS 2547 (Part I)-1976 for chemical characteristics  
IS 2547 (Part II)-1976 for physical characteristics

**Health and Safety instructions**

STERLING<sup>®</sup> GYPOTECH should not come in contact with skin or eyes nor should they be swallowed. Avoid inhalation of vapours and ensure adequate ventilation. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye/ face protection. Should accidental skin contact occur, remove immediately with a resin removing cream followed by washing with soap and water-do not use solvent. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

**Technical Properties:**

Dry Bulk Density	770 Kg/m <sup>3</sup> (Max)
Wet Bulk Density	1.35-1.5 g/cm <sup>3</sup>
Mixed density	1.315 g/cc
Water To Powder Ratio	1:1.25
Water To Powder Ratio	20-25 Minutes

\*Above parameters are tested under lab conditions. Actual performance depends on site usage, conditions and working.

**Coverage:**

Applied Thickness	13 mm
Coverage	27 sq-ft/40 kg bag

**Application**

STERLING<sup>®</sup> GYPOTECH can be applied to an average thickness range of 6-15 mm on walls in one coat and up to 10 mm on ceilings. Thickness above this range, material needs to be applied in two coats. The thickness should not increase to more than 30 mm (average thickness) on walls and 20 mm (average thickness) on ceiling. After complete drying for usually 72 hrs (depends upon thickness and weather conditions) the plain smooth leveled surface is ready for painting. It should be applied with firm pressure, built out to the required thickness, and ruled to an even surface and left as an undercoat to form a key for finish coat. A thin plaster mix is made and applied as a finish coat to provide smooth surface.

**Storage and handling**

STERLING<sup>®</sup> GYPOTECH is supplied in 40Kg bags. The dimensions of the bag ensure that a well-filled appearance is presented when filled and the bags can be stacked on a pallet in a stable and well-stacked array. Bags should be stored dry, as absorption of water shortens the setting time, causes set lumps to form in the bags and may reduce the strength of the set plasterwork. No hooks or any sharp tools should be used to carry bags from one location to another.

**Background Preparation**

Surfaces should be reasonably dry, clean and protected from the weather, and suitable for the chosen specification. In addition, before plastering concrete backgrounds, ensure that any mould oil or other agents present are removed from the surface. No-fines concrete does not require wetting prior to plastering. Plaster should not be applied onto a 'green' background or when any free water is visible. Clean water should be applied 5-10 minutes before plaster application to control the suction. In-situ or pre-cast concrete which are exceptionally smooth or having low suction will require pre-treatment with Sterling Technocoat Bond Acryl bonding agent.

**Mixing**

STERLING<sup>®</sup> GYPOTECH is pre-mixed with aggregate and only clean water needs to be added to prepare it for use. Mixing should be carried out in a clean tray or bath. Excessive mechanical mixing should be avoided. Tools and water used in mixing must be clean. Contamination from previous mixes can shorten the setting time and in turn reduce the strength of the plaster when set. Water to plaster ratio (1 part of water: 1.25 part of plaster by weight) should be maintained to have good cohesive workable

Ensure adequate ventilation in volume and pattern in working area and do not smoke during use. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals. Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment.

\*Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

Product only for professional use.

**DISCLAIMER:** The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

Please note that this datasheet supersedes all previous versions.

mix. Prepare plaster mix as much as required depending upon the immediate scope of work. Once the mix has begun to set, additional water is not to be added, as performance properties of plaster will get altered, thus affecting workability, cohesiveness, adhesion properties and strength.

## Tiling

Tiles up to 20 kg/m<sup>2</sup> can be applied directly to the STERLING® GYPOTECH except where the system includes a bonding agent. Consideration should be given to tiling directly to the background. If plastering to provide a background for tiles avoid polishing the surface. Polished plaster surfaces should be roughened and a suitable primer used.

## Precautions

Dissimilar expansion and contraction of RCC and brick / stone masonry could cause stresses and at times separation. To reduce the separation cracks, use of 145 GSM glass fiber mesh (at the junction) is recommended. It is not suitable for use in long continuously damp or severely humid conditions.

## Additional information

Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

\*Separate datasheet are available on these products.

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