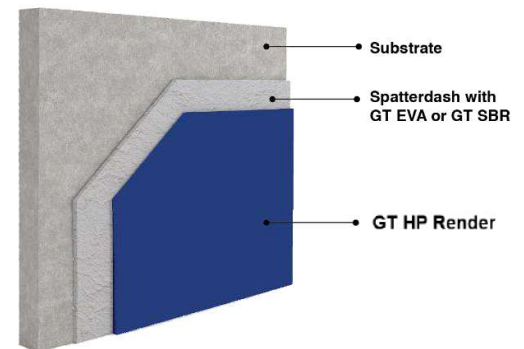


PRODUCT DATA SHEET

GT HP Render

(Super High Performance Polymerized Cementitious Waterproof Plaster)



Super high-performance hand or spray applied waterproof cementitious high build pre-mixed plaster for interior and exterior applications

Description

- GT HP Render is a super high performance waterproof plaster for rendering and levelling work
- Engineered for plastering work on brickwalls, blockwalls, concrete surfaces and panel walls, for both interior and exterior use
- Specially formulated to achieve high build and high strength properties for both hand and spray application method
- Serves as a waterproof plaster coat for GT Tile Adhesive & Tile Grout Series
- For a smoother surface finish, GT HP Render can be top coated with GT Skim Coat Series before painting

Uses

- As plastering, specifically for both interior & exterior waterproof wall render applications
- High strength plastering for both structural and non-structural building elements
- High build plastering for thick layer applications

Characteristics & Advantages

- Single-component formulation with fixed mixing proportions ensures consistent and high-quality work
- Excellent adhesion strength and water resistance properties
- High strength and compatible with structural concrete
- High build to achieve thick layer application
- Complied with European, British & Hong Kong Standards
- Compatible with GT Skim Coat, Tile Adhesive & Waterproofing Series Products

Complied Standards

- European Standard: EN 1015-12, EN 1348
- British Standard: BS 6319 Part 2, 3 and 7, BS 1881 Part 5
- Hong Kong: HKHA MTS Specification Part D Cl. 2.1.1, 2.1.2, 2.1.6 and 2.1.14

Technical Data

Chemical Component	Portland cement, light weight filler, fine sand, polymer powder and other chemical additives
Colour	Grey
Packaging	40 KG
Maximum Aggregate Size	2.0 mm
Water Demand	Hand application: Approx. 15 – 17% (6.0 – 6.8 L/40 KG bag) Spray application: Approx. 16 – 18% (6.4 – 7.2 L/40 KG bag)
Density	2.0 KG/L (wet) for 16% water demand
Pot Life	Approx. 1 hour
Thickness	For spray application, 6 – 30 mm for 1 coat and 30 – 50 mm for 2 coats For hand application, 6 – 25 mm for 1 coat and 25 – 50 mm for 2 coats
Coverage	Approx. 1.72 KG/m ² /mm
Theoretical Consumption	Approx. 17.2 KG/m ² for thickness of 10 mm Approx. 2.3 m ² /40 KG bag for thickness of 10 mm
Storage Life	12 months (Product must kept in a dry environment)

Physical Properties

Adhesion To Concrete	EN 1015-12 (Curing conditions based on EN 1348)	
	- Initial adhesion strength	1.9 MPa
	- Adhesion strength after heat ageing	2.4 MPa
	- Adhesion strength after water immersion	1.9 MPa
Compressive Strength	- Adhesion strength after freeze-thaw cycles	2.1 MPa
	BS 6319 : Part 2 , HKHA MTS Spec. Part D, Cl. 2.1.1	~ 35 MPa at 7 days ~ 45 MPa at 28 days
	BS 6319 : Part 7	> 2 MPa at 7 days > 2.5 MPa at 28 days
	BS 6319 : Part 7, HKHA MTS Spec. Part D, Cl. 2.1.14	> 2 MPa at 7 days > 2.5 MPa at 28 days
Flexural Strength	BS 6319 : Part 3, HKHA MTS Spec. Part D, Cl. 2.1.2	> 5 MPa at 7 days > 8 MPa at 28 days
Shrinkage (Coutinho Ring Test)	HKHA MTS Specification Part D, Clause 2.1.6	No cracks observed
Initial Surface Absorption Test (ISAT)	BS 1881 : Part 5	0.0088 ml/m ² .s (10 mins) 0.0044 ml/m ² .s (30 mins) 0.0007 ml/m ² .s (60 mins) 0.0000 ml/m ² .s (120 mins)

Unless specified, all technical data represent average values and are based on 28 days curing time.

The provided physical data are derived from laboratory tests. Actual in situ material performance on-site may vary due to environmental and workmanship conditions beyond the manufacturer's control.

Application Procedure

Substrate Preparation

Ensure the substrate is thoroughly cleaned, structurally sound and accurately level to meet specified tolerances. It should be free from any form of contamination, loose particles, grease, lacquer, plastics or remnants of foreign materials.

Additionally, remove protrusions such as wood peels, nails, excess mortar or joints with tolerances beyond the thickness of the plaster.

All concrete surfaces should be properly cured prior to plastering.

Mixing & Application of GT HP Render

Prepare the slurry coat by thoroughly mixing GT SBR with Ordinary Portland Cement by volume (1:1.5 ratio), using an electrical mixer to stir the mixture thoroughly until a homogeneous slurry coat is achieved. (Approx. 3–5 minutes).

Wet down the substrate with clean water and ensure any excess water to drain away before applying GT HP Render.

Begin the application process by combining one bag (40 KG) of dry GT HP Render powder with 6.0–6.8 Liters (Approx. 15–17%) of clean water for hand application, 6.4–7.2 Liters (Approx. 16–18%) of clean water for spray application.

Apply a layer of slurry coat with a brush or roller to the substrate.

While the slurry coat is still wet and tacky, apply GT HP Render either manually or with a spraying machine to achieve the required thickness in one or multiple layers.

Please refer to the GT HP Render's Method Statement (MS) for comprehensive procedures in detail.

Curing

Water misting is recommended but not always essential. However, it is mandatory under extremely hot or dry weather conditions.

Health & Safety

It is recommended to use a NIOSH-approved or equivalent particulate face mask when mixing the material.

The material composition contains cement, which may cause an allergic reaction.

Exercise caution, as the material could cause irritation to the eyes and skin. In the event of eye contact, rinse immediately with ample water and seek medical attention. Should skin contact occur, wash thoroughly with soap and water.

Keep the product out of reach of children.

Refer to the Material Safety Data Sheet (MSDS) for comprehensive information on health, safety and proper handling procedures.

Cleaning & Disposal of Waste

For cured material, mechanical removal is suitable, while uncured material can be washed away with water.

Ensure proper disposal of waste in accordance with applicable legislation.

Legal Disclaimers

Note: The details and physical data provided in this catalog are based on our knowledge using standard testing methods and controlled environments. Results may differ under varying weather/site conditions, workmanship or substrates. As these factors are beyond our control, we cannot be held responsible for any faults or consequences that may arise. We recommend conducting comprehensive tests before the final application. Unless explicitly stated, all technical data represent average values with a curing time of 28 days. We retain the right to update or modify the contents based on new discoveries during research and development.