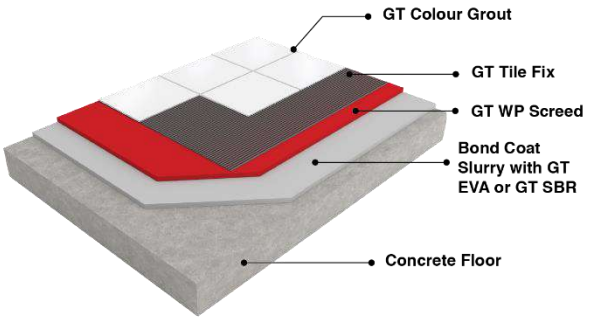
PRODUCT DATA SHEET

GT WP Screed

(Waterproof Polymerized Cementitious Pre-Mixed Screed)



A Waterproof polymerized cementitious screed mortar for interior & exterior levelling & screeding application

Description

- GT WP Screed is a waterproof polymerized cementitious screed for interior & exterior applications
- Engineered to level and repair concrete or screeds to create a suitable heavy-duty screed base
- For levelling out uneven and irregular concrete surfaces

Uses

- Residential, Commercial & Industrial flooring
- Wet areas
- Both interior & exterior conditions
- Screed repairing

Characteristics & Benefits

- Single-component formulation with consistent mixing ratios
- High compressive strength
- Low water absorption
- Minimizes shrinkage cracking
- Excellent flexural strength
- Complied with Hong Kong, British, German & Chinese Standards
- Compatible with GT Tile Adhesive, Waterproofing & GT Self Levelling Series Products

Complied Standards

- Hong Kong: HKHA MTS Spec. Part D, Cl.2.1.1, 2.1.2, 2.1.6 & 2.1.15
- British Standard: BS 6319: Part 3, BS 1881: Part 122
- German Standard: DIN 1048: Part 5
- Chinese Standard: GB/T 25181
- EN Standard: EN 1015-11 & 12

Technical Data

Chemical Component	Portland cement, fine sand, filler and other chemical additives
Colour	Grey
Packaging	40 KG
Maximum Aggregate Size	4.5 mm
Water Demand	4.8 – 6 L/40KG bag (Approx. 12% – 15%)
Density	2.0 KG/L (wet) for 14% water demand
Pot Life	Approx. 2 hours
Thickness	10-50 mm
Coverage	Approx. 1.75 KG/m²/mm
Storage Life	12 months (Product must kept in a dry environment)

Physical Properties

Adhesion To Concrete	EN 1015: Part 12	1.9 N/mm²
Compressive Strength	EN 1015: Part 11	37.5 N/mm²
Flexural Strength	BS EN 1015-11 HKHA MTS, Part D Cl.2.1.2 & BS 6319: Part 3	7.8 N/mm² 7.0 N/mm²
Water Absorption	BS 1881: Part 122	1.2 %
Water Permeability	DIN 1048 Part 5 Clause 7.6	6mm
Coutinho Ring Shrinkage	HKHA MTS Part D Cl. 2.1.6 Method 1	No crack observed

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

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, any protrusions such as wood peels, nails, excess mortar or joints with tolerances beyond the thickness of the screeding should be addressed.

Eliminate weak or soft substrates that might undergo movement during use or curing.

Concrete that has been contaminated with oil or grease may need to undergo flame gunning or be treated with a specialized degreasing agent.

Ensure that contraction joints, construction joints and any substrate cracks prone to movement post GT WP Screed installation are retained as joints in the new surface.

All concrete substrates should be properly cured prior to screeding.

Dampen the substrate with clean water the night before and at the time before application.

Ensure no stagnant or excessive water flow on the substrate before application.

Mixing & Application

Prepare the slurry by thoroughly mixing GT SBR/GT EVA with Ordinary Portland Cement and water by volume (2:5:3 ratio), using an electrical mixer to stir the mixture thoroughly until a homogeneous slurry is achieved. (Approx. 3-5 minutes)

Apply GT SBR/GT EVA as slurry coat with a brush or roller on the concrete surface while the surface is still moisturised.

Proceed with the screeding application while the slurry coat maintains its wet and adhesive state.

Strictly avoid the slurry coat dries before screeding.

Begin the application process by combining one bag (40 KG) of dry GT WP Screed powder with 4.8–6 Liters (Approx. 12-15%) of clean water.

Use an electric mixer for a thorough mixing, ensuring an optimal mixing time of 3-7 minutes.

For screeding of 10-50 mm thickness, a single coat is sufficient.

For screeding of 50-100 mm thickness, a two-coat application is recommended.

Keep the first coat coarse or scratched upon application. Apply the bonding slurry to the first layer, then apply the second layer with a thickness not exceeding 50 mm.

Following a 7-day curing period, GT Tile Adhesive can be used as tile fixing application and GT Self Levelling can be used as smooth and levelling application.

Please refer GT WP Screed's method statement for comprehensive procedures in detail.

Curing

For the curing of GT WP Screed, options include wet hessian, polyethylene sheet or a spray-on curing compound.

Health & Safety

It is recommended to use a NOISH-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.