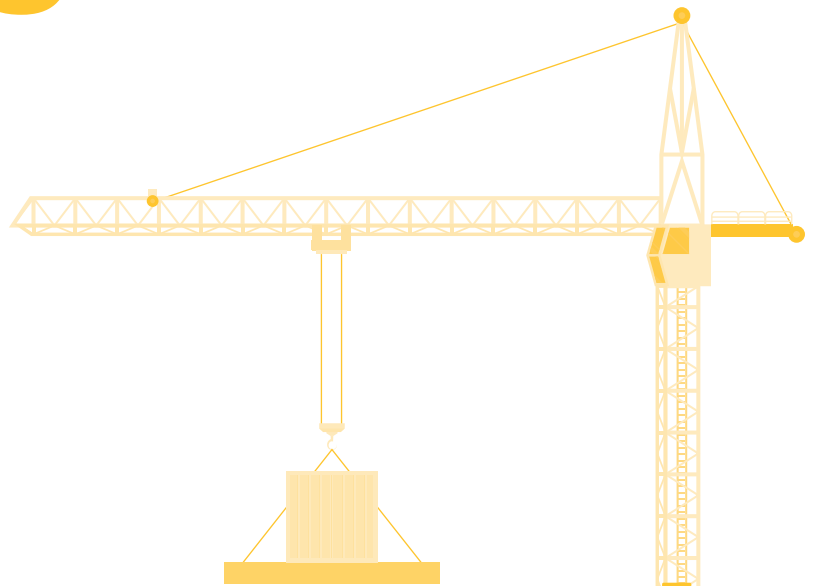




Level 25

Technical Data Sheet



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DESCRIPTION

HITI LEVEL 25 is a high-performance, single-component, polymer-enhanced, pumpable cementitious screed specifically formulated for interior concrete floors.

Engineered for versatility and durability, it provides a quick, efficient, and cost-effective solution for achieving smooth and level substrates, ready to receive final floor finishes. This product is suitable for both manual and pump applications, with an optimal application thickness ranging from 3 to 25 mm.

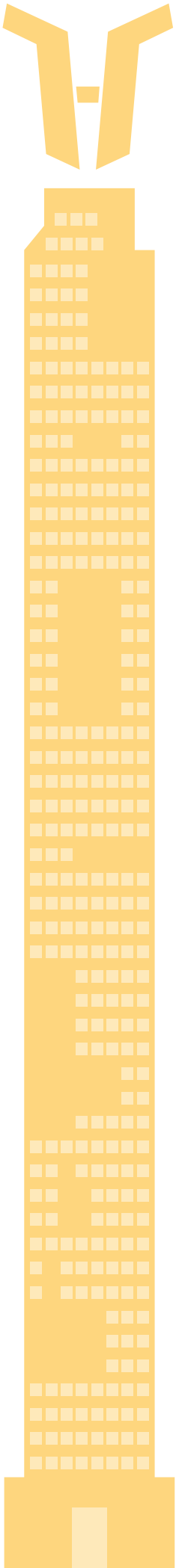
USES

HITI LEVEL 25 is ideal for:

- **Commercial Spaces:** Offices, corridors, canteens, and restaurants where smooth, level surfaces are essential.
- **Residential Projects:** Perfect for domestic properties, condominiums, and high-rise buildings.
- **Institutional Environments:** Schools, hospitals, clinics, and libraries benefit from its leveling capabilities.

Applications:

- **Interior Concrete Slabs:** Ensures even leveling and smoothing.
- **Floor Finishes:** Compatible with a variety of coverings, including carpeting, vinyl composition tile, ceramic tile, wood flooring, stone, and resilient flooring.



ADVANTAGES

- **Highly Fluid & Self-Leveling:** Ensures a smooth, even surface effortlessly.
- **Versatile Application:** Can be applied manually or with a pump for flexibility.
- **Renovates Old Floors:** Perfect for revitalizing and leveling existing surfaces.
- **Excellent Underlay:** Ideal for supporting tiles, sheet systems, wood floor bonding, and resin flooring.
- **Low Odor:** Suitable for indoor applications with minimal disruption.
- **Durable Wearing Surface:** Can also serve as a long-lasting top layer if needed.

HOW TO USE

Surface Preparation & Priming

Before applying the self-leveling screed material, ensure the substrate is dry, clean, and structurally sound. Any existing treatments such as coatings, sealers, waxes, latex compounds, impregnations, and curing agents must be thoroughly removed, along with all contaminants like dirt, dust, laitance, grease, and oils that could hinder the penetration of **HITI LATEX** and the adhesion of **HITI LEVEL 25**.

Concrete and cement-based substrates should be prepared through mechanical methods such as shot blasting, sandblasting, water jetting, or scarifying, aiming for an open-textured, fine-gripping surface profile. Weak concrete must be removed, and surface defects like blowholes and spalls should be fully exposed and repaired using a suitable **HITI** mortar before priming and leveling. Any cracks or holes should also be filled to prevent the primer from seeping into lower areas.

All loose or friable materials, including preparation residues, must be completely removed using a vacuum before applying **HITI LATEX**. The concrete substrate should have a compressive strength of at least 25 MPa (3625 psi) at 28 days, with a minimum tensile strength of 1.5 MPa (218 psi) at the time **HITI LATEX** is applied. The substrate's Moisture Vapor Emission Rates should also meet the requirements of the chosen floor covering. It is advisable to consult the manufacturer of the final floor finish for specific guidelines.

The method of mechanical surface preparation and the timing of primer and underlayment application should be carefully considered. On some highly porous substrates, outgassing may increase for a short period (approximately 48 hours) until equilibrium between the slab vapor pressure and ambient environment is achieved. Before full-scale installation, it's recommended to apply several small test patches to determine primer application requirements and to ensure the desired product performance. Generally, a single coat of **HITI LATEX** should suffice, though excessively porous substrates may require double priming. In such cases, avoid applying excessive material.

MIXING INSTRUCTIONS

1. Begin by pouring (4.75 - 5) liters of clean, potable water into an appropriately sized mixing container.
2. Gradually add the 25 kg bag of powder to the water while mixing at a slow pace.
3. Continue mixing with a low-speed electric mixer, operating at 300–400 rpm, for a minimum of three minutes until a smooth, uniform consistency is achieved.
4. Allow the mixture to stand briefly to enable the dispersion of any air bubbles before proceeding with the application.

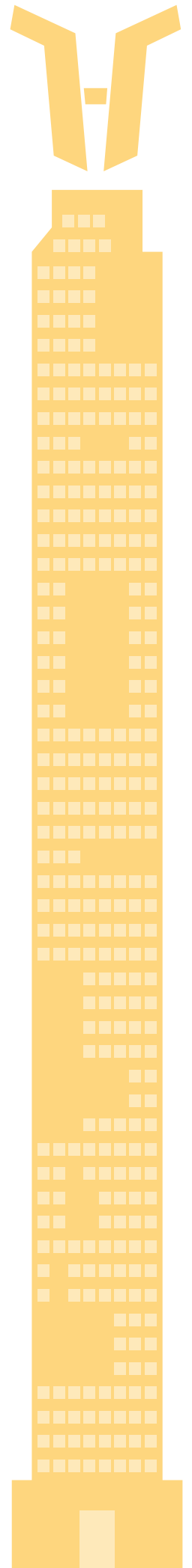
APPLICATION METHOD

PUMP APPLICATION:

1. Utilize a conventional dual-stage floor screed mixer and pump. Carefully regulate the water dosage to achieve the desired flowable consistency.
2. Once the material is pumped onto the pre-primed surface, distribute it evenly using a trowel or pin screed rake to reach the required thickness.

MANUAL APPLICATION:

1. Pour the mixed material directly onto the pre-primed surface.
2. Spread it evenly using a trowel or pin screed rake to achieve the necessary thickness.

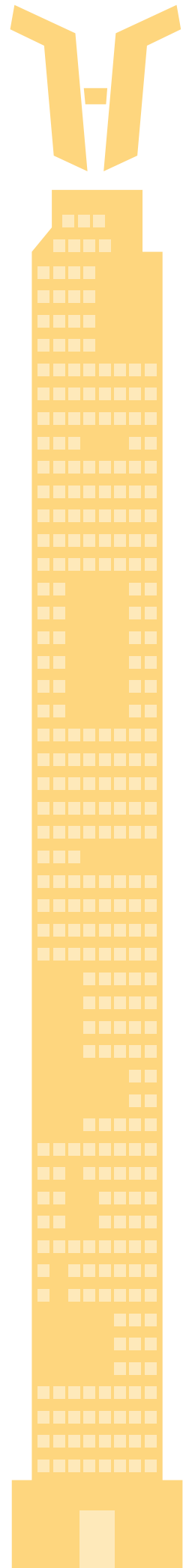


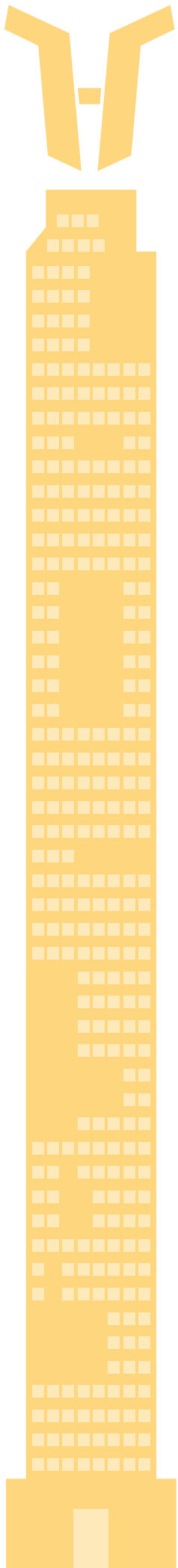
CURING

Allow **HITI LEVEL 25** to air cure naturally. Do not apply wet curing methods or use curing and sealing compounds. Ensure the surface remains undisturbed to achieve optimal curing conditions and performance.

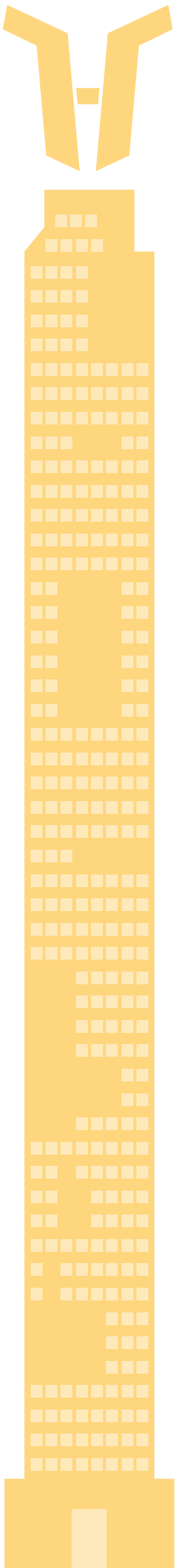
Limitations

- **Protect from Moisture:** Ensure that stored material is shielded from rain, condensation, and high humidity to prevent moisture penetration into the packaging, which can cause lumps.
- **Temperature Conditioning:** For optimal results, acclimate the product to a temperature range of 18 to 29°C before mixing and application. Temperatures outside this range may lead to slower strength development and extended curing times.
- **Avoid Moisture Exposure:** Keep newly applied **HITI LEVEL 25** protected from condensation and water for at least 24 hours.
- **Control Environmental Conditions:** Shield the applied screed from excessive heat and moving air during the curing process. Turn off radiant heating and forced air ventilation systems for 24 hours to prevent disruptions.
- **Adhere to Water Dosage:** Do not exceed the recommended water dosage to ensure proper mixing and performance.
- **Impact of Temperature:** Be aware that low temperatures will prolong drying times, and temperature variations may affect working time.
- **Aesthetic Considerations:** **HITI LEVEL 25** is not intended for providing an aesthetic finish.
- **Application Limitations:** Not suitable for surfaces with slopes or inclines greater than 0.5%.
- **Interior Use Only:** Intended for indoor applications exclusively.
- **Surface Preparation for Overcoating:** Mechanical preparation is required to remove surface laitance before applying subsequent layers of **HITI LEVEL 25** or any other coatings. Ensure that moisture content meets the requirements of the overlaying product.





Property	Details
Composition	Polymer modified cement-based mortar with different additives and fine silica sand
Appearance	Grey Powder
Packaging	25kg Bag
Shelf Life	1 year in unopened packaging.
Storage	Store dry at temperatures between 5 and 25 °C ensuring that product is not exposed to rain, condensation, or high humidity.
Bulk Density	1.63 kg/m ³
Mixed Density	2.08 kg/m ³
Water Mixing Ratio	(19% - 20%) (4.75 – 5) Liters per 25kg bag
Compressive Strength	≥ 24 N/mm ² at 3 days
	≥ 31 N/mm ² at 7 days
	≥ 37 N/mm ² at 28 days
Flexural Strength	≥ 5.5 N/mm ² at 28 days
Flowing Time	~ 30 minutes at 20 °C
Waiting / Recoat Times (+25 °C)	Light foot traffic: 1 day
	Ready for covering:
	- Tile/Stone/non-moisture sensitive flooring: 2 day
	- PVC/Carpet/Vinyl/Rubber flooring: 3 days
	- Hardwood/Engineered Wood flooring: 4 days



Coverage/Consumption per 25kg bag mixed with 5 liters of water	
Thickness (mm)	Coverage Area (m2)
3	4.8
4	3.6
5	2.88
6	2.4
8	1.8
10	1.44
12	1.2
15	0.96
20	0.72
25	0.57

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