



ULTRAGROUT 2500

Technical Data Sheet

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Product Description

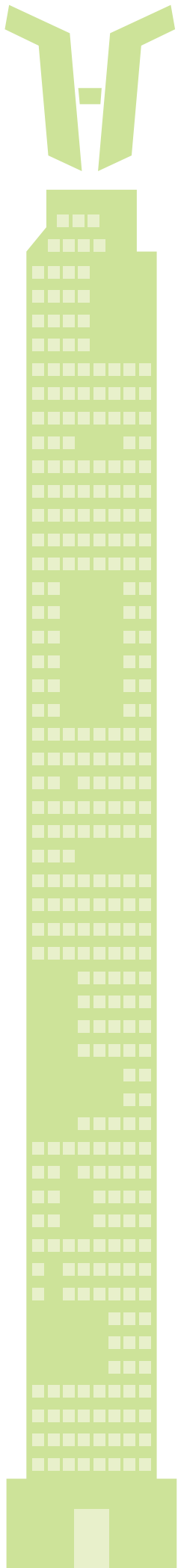
HITI ULTRAGROUT 2500 is a premium, one-component, polymer-modified, water-resistant cementitious tile grout. Formulated as a composite blend of high-quality cement, specialized polymers, advanced additives, and color pigments, it delivers exceptional performance for grouting applications. When mixed with water, **HITI ULTRAGROUT 2500** achieves a durable, flexible grout suitable for joint widths up to 8 mm. Available in a diverse palette of contemporary colors, this product ensures a smooth, attractive finish for both interior and exterior installations, providing long-lasting results and aesthetic appeal.

Standards

HITI ULTRAGROUT 2500 is classified as an improved (2) cementitious (C) grout (G) with reduced water absorption (W) and high abrasion resistance (A), adhering to the classification of CG2WA according to ISO 13007-3 and BS EN 13888 standards.

USES

HITI ULTRAGROUT 2500 is designed for grouting the joints of floor and wall tiles in both interior and exterior applications. It is suitable for use with ceramic tiles, natural stones, marble, granite, and mosaics, accommodating joint widths of up to 8 mm. This versatile grout is ideal for both commercial and residential projects, providing a durable and aesthetically pleasing finish.



Advantages

- **Low Shrinkage Rate:** Ensures a crack-free finish, maintaining the integrity of the grout joints.
- **High Durability:** Exhibits excellent compressive and flexural strength, with robust resistance to freeze/thaw cycles.
- **Non-Sag Application:** Specifically formulated for easy application on vertical surfaces without slumping.
- **Excellent Abrasion Resistance:** Provides lasting performance in high-traffic areas.
- **Water-Repellent:** Impermeable to various liquids, enhancing the longevity of the grout.
- **User-Friendly:** Requires only the addition of water for mixing, making it easy to use.
- **Extended Open Time:** Allows ample time for cleaning tile surfaces after application without compromising the grout.
- **Vibrant Color Range:** Available in stable, uniform colors across a modern palette to suit diverse design preferences.

Application Procedure

Joint Preparation

Prior to grouting, ensure that the adhesive has fully cured and hardened. It is recommended to allow a minimum of 24 hours for the adhesive to set before applying **HITI ULTRAGROUT 2500**. All tile joints and adjacent surfaces must be properly cured, structurally sound, clean, and dry, free from contaminants such as dust, dirt, oil, grease, cement laitance, or any obstructions like excess tile adhesive residue.

In hot or dry conditions, or when using highly absorbent tiles, thoroughly pre-dampen the surfaces before application, ensuring the removal of any standing water. The surface should be in a saturated surface-dry (SSD) condition

Mixing

To prepare the grout, measure 5 kg of **HITI ULTRAGROUT 2500** powder into a clean, rust-free container. Gradually add 1.65 to 1.75 L (33-35% by weight) of clean water, adjusting according to the desired consistency. For floor applications, a thinner mixture can be achieved by increasing the water quantity to 1.75 to 1.85 L (35-37% by weight).

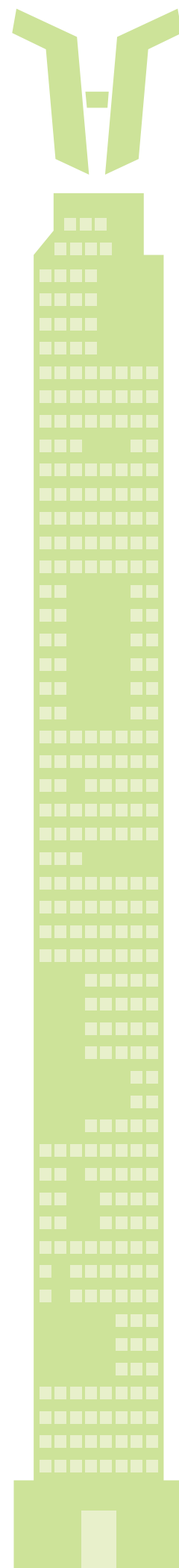
Utilize a low-speed mixer (below 500 rpm) to minimize air bubble formation. Mix for approximately 3 minutes until achieving a uniform, lump-free consistency. Allow the mixture to stand for a few minutes, then briefly stir again before application.

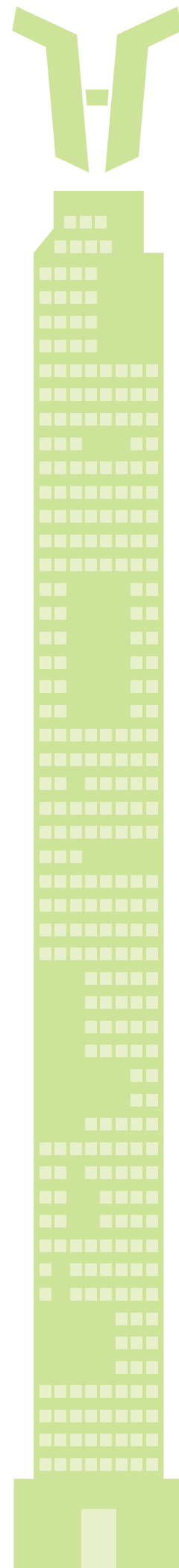
For high-performance applications, such as heavy-traffic floors, swimming pools, or other water-retaining areas, it is advisable to modify **HITI ULTRAGROUT 2500** with **HITI LATEX** (0.5 L of **HITI LATEX** per 5 kg of grout, along with the remaining amount of water).

Application

Apply **HITI ULTRAGROUT 2500** using a rubber blade or trowel, ensuring uniform filling and complete compaction of the joints throughout their entire width and length. Immediately remove any excess grout from the tile surface using the same blade or trowel, scraping diagonally to prevent leaving residue.

As the grout begins to set, initiate the initial cleaning step with a damp sponge. Prompt cleaning is crucial, as delaying this process may lead to difficulties in removing residual grout, necessitating mechanical cleaning methods that could potentially scratch the tile surfaces. If **HITI ULTRAGROUT 2500** has been modified with **HITI LATEX**, an additional cleaning step should follow the initial cleaning with a damp sponge. Always conduct cleanability testing prior to application.

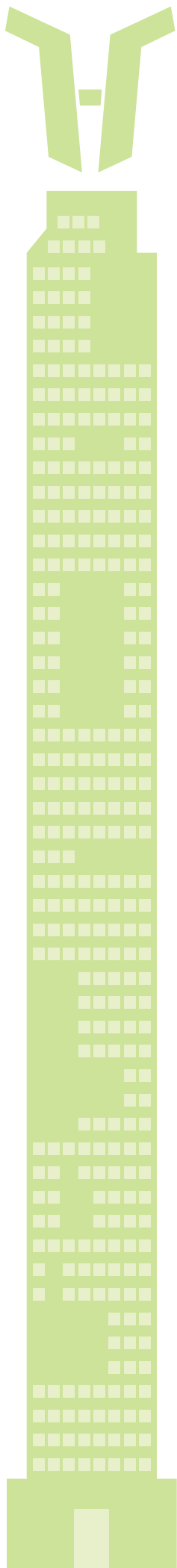




Recommendations

- **Joint Width Limitations:** Avoid using **HITI ULTRAGROUT 2500** for joint widths exceeding 8 mm.
- **Mixing Restrictions:** Do not mix **HITI ULTRAGROUT 2500** with cement or any other products not specified in this Product Data Sheet.
- **Water Measurement:** Adhere to the recommended water measurements in the mixing process; exceeding this amount may compromise product performance.
- **Water Quality:** Avoid mixing with salty or contaminated water.
- **Setting Mixture:** Do not add water to a mixture that is beginning to set. Instead, discard the mixture and prepare a fresh batch.

Property	Specification
Composition	Cement, polymers, fillers, pigments, and additives.
Consistency	Fine powder
Mix Density	1.85 g/cm ³
Mixing Ratio	1.6 – 1.8 liter per 5kg powder
Joint Width	Suitable for joints up to 8 mm



Set to light foot traffic	24 - 48 hours
Pot Life	~ 2 hours
Compressive Strength	Complies with ISO 13007-3 and BS EN 13888 standards for CG2WA classification.
Flexural Strength	Complies with ISO 13007-3 and BS EN 13888 standards for CG2WA classification.
Abrasion Resistance	Complies with ISO 13007-3 and BS EN 13888 standards for CG2WA classification.
Shrinkage	Complies with ISO 13007-3 and BS EN 13888 standards for CG2WA classification.
Water Absorption	Complies with ISO 13007-3 and BS EN 13888 standards for CG2WA classification.
Application temperature	(+5 °C) – (+35 °C)
Substrate temperature	(+5 °C) – (+35 °C)
Service Temperature Range	(-15 °C) – (+80 °C)
Packaging	5 kg , 20 kg Bags
Shelf Life	Shelf life is up to 12 months from production date
Storage	should be stored in its original, unopened packaging, in a covered area, away from direct sunlight. Protect the product from extreme temperatures. In tropical climates, it is recommended to store the product in an air-conditioned environment to maintain its quality.

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