

TERRAZZO GRANITECH USA
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TERRAZZO GRANITECH

Decorative, **granite- and acrylic resin-based**, non-cementitious, trowel-applied system for interior and exterior architectural surfaces. The system is **inherently waterproof prior to the application of sealers**, which are used exclusively for surface protection, chemical resistance, slip resistance, and aesthetic control. Unlike cementitious microcement systems, **TERRAZZO GraniTech is pH-compatible with its dedicated sealer systems**, eliminating the risk of sealer peeling or alkaline-related failures.

DESCRIPTION

Terrazzo GraniTech Medium: Slightly coarse texture. The larger grain size allows for either a textured finish or a smoother appearance depending on sealer selection. Supplied premixed in **19 kg containers**.

Terrazzo GraniTech Fine: Fine grain size with a soft, velvety surface. Can be brush-applied with controlled dilution. Supplied premixed in **10 kg containers**.

Terrazzo GraniTech Microterrazzo: Larger grain size with visible embedded aggregates, providing a microterrazzo-like appearance. Supplied premixed in **22 - 25 kg containers**.

All Terrazzo GraniTech finishes can achieve a wide range of visual outcomes depending on application technique, sanding, and final sealer selection.

Sheen options: Matte, satin, semi-gloss, and high-gloss (wax applied over satin sealer).

KEY FEATURES

- Granite and acrylic resin-based, non-cementitious system
- Inherently waterproof prior to sealing
- Seamless, joint-free finish
- High mechanical strength and elasticity
- UV resistant; suitable for exterior exposure
- Ready-to-use paste (10, 19, 22, 25 kg containers)
- Low VOC (<50 g/L); Low odor
- Compatible only with dedicated GraniTech sealers

SUITABLE APPLICATIONS

- Interior walls and ceilings (Level 4 drywall minimum – level 5 preferred)
- Interior floors over smooth and stable substrates such as existing tile or smooth concrete
- Wet areas (cement board, taped joints, waterproofed)
- Exterior floors and pool decks

- Pool interiors (dew point conditions must be respected)
- Exterior façades over CMU or similar surfaces (scratch/brown coat required)

SYSTEM BUILD-UP

- Quartz primer (interiors); Two-component epoxy primer and silica sand broadcasting (exterior applications where a vapor barrier is required indoors)
- Fiberglass mesh in wet areas, interior floors, and where additional durability is required due to substrate conditions
- Terrazzo GraniTech Medium: 1-3 coats at ~1 mm per coat (total ~3 mm); Terrazzo GraniTech Fine: 1-2 coats at ~1 mm per coat over 1 coat of Terrazzo GraniTech Medium; Terrazzo GraniTech Microterrazzo: 1-2 coats at ~2mm per coat
- Dedicated GraniTech sealer system only

CURING

- **No foot traffic for a minimum of 48 hours** after application of the final sealer
- Approximately **80% of final mechanical strength** achieved after ~7 days; only light traffic permitted using RAM Board or Masonite if required
- **Full curing and performance development** achieved after ~28 days; Curing behavior comparable to concrete-based systems

APPLICATION

General

Prepare substrates per supplier requirements. Ensure surfaces are clean, dry, structurally sound, level, and free of oils, dust, curing compounds, or loose materials. All joints, transitions, movement areas, and sharp changes in plane must be detailed and stabilized prior to application. Substrates must be smooth and stable to ensure the ~1-2mm thin coats can be applied properly. **Terrazzo GraniTech is a final decorative finish and is not intended for substrate leveling, defect repair, or filling holes, voids, or structural imperfections.** All substrates must be properly prepared, repaired, leveled, and stabilized prior to application in accordance with project requirements and system guidelines.

Tooling

Use **“no black mark” stainless steel or plastic trowels** exclusively to avoid dark streaks or surface contamination. Keep tools cleaned with water between coats. Brushes may be used to achieve decorative effects as desired with the Terrazzo GraniTech Fine finish.

Mixing

Add 200ml (6.8 oz of water) and appropriate Terrazzo GraniTech pigments. Only approved Terrazzo GraniTech pigments to be used, non-approved pigments (e.g for paint or other materials) will cause reactions with sealers. Mix well with mechanical means until the mixture is homogenous.

Primer & Reinforcement

- a. Apply **Quartz Primer** or Epoxy Primer and Silica Sand (20/40 grade) over the prepared substrate.
- b. For wet areas and interior / exterior floors: Embed **fiberglass mesh** into the primer across the entire area, ensuring full coverage at corners and joints. Secure temporarily with tape as required.

c. Allow primer/mesh to cure for **24 hours** prior to material application under acceptable temperature and humidity conditions. Use large fans as required to promote uniform drying.

Base Coat Application

- a. Apply the first coat of TERRAZZO GraniTech Medium at ~1 mm thickness.
- b. Allow the base coat to firm sufficiently before applying subsequent coats.
- c. Walls: Apply **two total coats of Terrazzo GraniTech Medium**, each at ~1 mm thickness (total ~2 mm). Floors: Apply **three total coats of Terrazzo GraniTech Medium**, each at ~1 mm thickness (total ~3 mm). Ensure each coat is uniform and free of trowel lines.
- d. Sand lightly between coats using approximately **120–220 grit** sandpaper to achieve a smooth and consistent surface. Coarser (80-grit) or finer grits may be used at the applicator's discretion based on substrate condition and desired finish.

Fine & Microterrazzo Finishes

- a. For **Fine**: apply 1–2 coats at ~1 mm per coat over the TERRAZZO GraniTech base.
- b. For **Microterrazzo**: apply 1–2 coats at ~2 mm per coat. Standalone system, no TERRAZZO GraniTech Medium prior
- c. Sand between finish coats with appropriate grit (e.g., 120–220-grit or as per applicator's judgement) to refine texture and remove imperfections.

Sealers

Only **sealers supplied by Terrazzo GraniTech USA** may be used. Sealers shall be drained in paint trays and applied in **thin, uniform films** using a **mohair roller**, in accordance with the applicable Terrazzo GraniTech sealer application guidelines.

Special Conditions — Over Tile or New Construction Showers

- a. When applying over existing tile, first **"flush"** tile joints with TERRAZZO GraniTech Fine to create a leveled, bonded surface.
- b. In new construction showers, install **approved waterproofing membrane systems** (e.g., Schluter, RedGard, Vidi Board or other) prior to primer. Cement board joints must be flagged, taped, and reinforced to create a flat, stable substrate. After waterproofing, apply a thinset leveling layer to ensure a stable foundation for the GraniTech system. Terrazzo GraniTech is a waterproof finish, not waterproofing material – hence it does not replace appropriate preparation work that includes waterproofing.

Environmental Conditions

- a. Do not apply when surface or ambient temperature is outside the acceptable range (~12°C / 54°F to 32°C / 89°F), when relative humidity is high, or when dew point conditions may cause condensation.
- b. Avoid application in direct sun, high wind, imminent rain, or rapid drying conditions.
- c. Protect freshly applied surfaces from dust, debris, and mechanical disturbance during curing.

Timing

- a. Apply coats on **consecutive days** where possible for uniform build and continuity.
- b. Allow adequate cure between coats and before sanding — follow local conditions, use fans as appropriate.
- c. Allow **48 hours** between final Terrazzo GraniTech application and sealer application for optimal performance.

MAINTENANCE

Routine cleaning with **pH-neutral cleaners** is recommended. Strong chemical cleaners may be used when required, provided surfaces are immediately rinsed.

Pressure washing is permitted **only after full curing**. Avoid aggressive use, object dragging, and point loads prior to full cure. Use RAM Board and/or Masonite for surface protection during the curing period.

STORAGE

Store in original, sealed containers in a dry, protected environment for **up to 12 months from the date of manufacture**. Protect from frost and direct sunlight. Reseal containers tightly after use.

IMPORTANT NOTICE · WARRANTY & LIMITATIONS

The supplier makes **no guarantee** regarding system performance or project outcome. Product performance is dependent on **strict compliance with published instructions**, use of **approved system components**, and adherence to recommended application procedures.

Responsibility for the **final aesthetic result** rests solely with the applicator, as appearance is influenced by installation technique, working times, substrate conditions, and site-specific climatic factors. These variables must be properly evaluated and managed by the applicator during scheduling and execution of the work. **Any warranty related to workmanship or appearance is provided exclusively by the applicator.**

The applicator acknowledges that the supplier is **not responsible** for:

- Substrate suitability or condition
- Environmental or climatic conditions affecting installation
- Site-specific factors or external influences beyond the supplier's control
- Operational, mechanical, or service stresses imposed on the finished surface

Technical documentation and guidelines provided by the supplier constitute **necessary reference conditions only** and do not replace the professional judgment, technical evaluation, or responsibilities of the applicator or contractor.

Product data, system details, and recommendations are subject to change without notice.

Products are intended for **professional use only**.

LIMITED PRODUCT WARRANTY

TERRAZZO GraniTech is a **proprietary and patented product** and is warranted to meet stated quality standards **within normal production tolerances** at the time of manufacture.

Because installation, site and environmental conditions as well as use are beyond the supplier's control, **no express or implied warranty** is provided regarding the results of application, performance in service, or suitability for a particular purpose.

The sole obligation of the supplier under this limited warranty is **restricted to refunding the purchase price of defective material**, provided that:

- The defect is identified **immediately upon opening the container**, and
- The supplier is notified **prior to application**. Visuals need to be supplied as proof.

Claims made after application are not accepted. The user assumes all other risks and liabilities arising from the use of this product.

For warranty inquiries or technical assistance, contact:

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