MICRO TOP 100
TECHNICAL DATA SHEET

Single-component, self-bonding, cement-based, Skim Coat Micro Cement Overlay

DESCRIPTION

Micro Top 100 is a single-component, polymer modified, self- bonding, cement-based, thin overlay for interior & exterior concrete & Plastered surfaces. Micro Top 100 was designed to yield an exceptionally smooth tight-troweled finish that can provide a new "blank canvas" for decorative concrete floors & walls. It may also be placed vertically on interior & exterior walls, creating the look of Venetian plaster.
Application is accomplished by Stainless steel trowel or "magic trowel". Micro Top 100 is prepared with specialized raw material to provide easy application, performance, durability, and appealing aesthetics to the area.

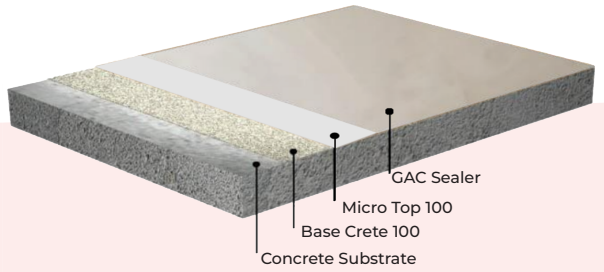
Required Surface

The principles for surface preparation for Micro Top 100 are aligned with other cement-based overlays. The substrate must be:

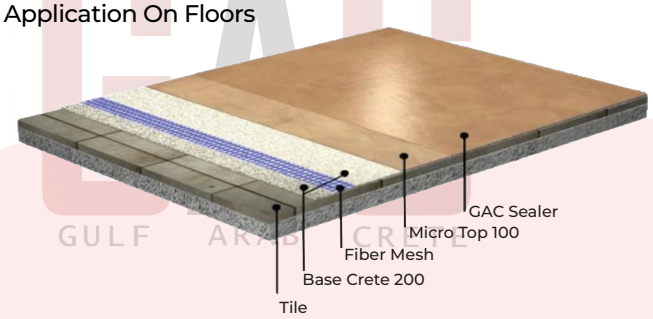
- **Clean**: The surface must be free of dust, dirt, Silicon, oil, grease, paints, glues, sealers, curing agents, efflorescence, chemical contaminants, rust, algae, mildew, and other foreign matter that may serve as a bond breaker.
- **Cured**: Any concrete must be sufficiently cured to have sufficient hydration, approximately 7 to 14 days depending on temperature and humidity. For more details, you may contact our TSS department.
- **Sound**: No system should be placed on a substrate that is flaking, spalling, or has hibernating spalling.
- **Floors**: Proper profile should follow the standard established by the International Concrete Repair Institute (ICRI) Technical Guideline No. 03732 for Concrete Surface Profile (CSP). The established profile is categorized as CSP-1 through CSP-3. Some concrete slabs that are hard troweled or that are not sound may require more aggressive profiling achieved through sanding, diamond grinding or shot blasting. Customarily, profiling is not required for application over another cement-based overlay. Two coats of Base Crete 200 is a must in order to get perfect finish of Micro Cement Technology.
- **Walls**: Customarily, profiling is not required for vertical application on a substrate. A painted surface may require degloss or sanding. Drywall surfaces require finishing and priming prior to application. Base Crete 100 is mandatory as primer to achieve the perfect finish and results.

System Details

- Application On Walls



- Application On Floors



Surface Preparation

Upon surface preparation, some areas may require patching prior to application of MicroTop 100. Flash Patch™ or Deep Patch™ are an excellent choice as a patching product to restore concrete to a sound state. Refer to Flash Patch or Deep Patch TDS.
Cracks may require treatment: Refer to SCT-22 Crack & Spall Treatment and SCT-EP Epoxy Crack Treatment TDS to evaluate crack as static or structural to set expectation of treatment. Never bridge Micro Top 100 across any joint in concrete. Construction joints in concrete have sufficient movement to "telegraph" through Micro Top 100 appropriate flexible caulks to allow for this movement.

Advantages

- One component just add water.
- Flexible with high strength
- Suitable for interiors and exteriors
- Great adhesion on a variety of surfaces.
- Self-priming
- Does not affect the structural load
- Multiple finishes and Colors
- Waterproof and anti-slip finish
- Self-curing & fast drying.
- UV Resistant.
- Wide range of application techniques.
- Available in wide range of standard and customized colors.

Our recommendations concerning the technical application of the product, whether through oral or written communication or through demonstration, are given to the best of our current knowledge; however, any such instruction shall be without commitment, including where any protective rights of third parties are involved. They do not free you of the obligation to check the products supplied by us for their suitability for the procedures and applications envisaged. The (intended) use and application of the products are beyond our control. They are therefore your personal responsibility. In the event that GAC proves liable, such liability shall be limited in all cases of damage to a sum not exceeding the actual value of the goods supplied by us and used by you. It goes without saying that we guarantee the good quality of our products, in accordance with the standards set out in our General Terms of Sale and Delivery.

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GAC GULF ARAB CRETE

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Safety Precautions

- Add approximately (5-7 kg) water to an empty 20kg bucket.
- Mix with a handheld concrete Jiffy mixer at 450 – 600 rpm speed equipped with a cage mixing blade.
- With mixer running, slowly introduce Micro Top 100 into the pail and mixing duration should be 2-3 minutes.
- Scrape the side of the pail with a margin trowel to ensure all dry product is incorporated into the wet mix.
- Continue to mix for a minimum of one minute after all ingredients are combined to achieve a lump-free consistency
- Additional small quantity of water may be added to make the material loose if required.

Application

First Coat

Micro Top 100 may be applied as a single coat system.

- **To Floor**

  The surface should be saturated, surface dry (SSD or damp, no puddles).

  Pour a generous ribbon of Micro Top 100 and tightly trowel or squeegee product over entire area.

- **To Wall**

  Utilize a hawk and trowel and tightly coat surface with trowel.

  - **STENCILS AND GROUT TAPE PATTERNS (OPTIONAL)**

    Stencils and tape patterns may be placed after scraping and sweeping of first coat, prior to application of finish coat. Stencils and tape patterns may be removed as soon as product dries sufficiently to bear the foot traffic of the applicator, prior to sealing.

Finish Coat

- **To Floor**

  Depending upon substrate condition and desired level of flatness or smoothness, a second or finish coat may be required.

  The first coat must set sufficiently to bear the foot traffic of the applicator, usually overnight (depending upon weather).

  The first coat may be scraped or sanded smooth, and the surface swept or vacuumed.

  The finish coat applies as the first coat described above. Alterations of trowel techniques will yield numerous pleasing finish coats.

- **To Wall**

  Depending upon substrate condition and desired level of flatness or smoothness, a second or finish coat may be required.

  The first coat must set sufficiently to support finish coat, approximately 2 to 6 hours.

  The finish coat applies as the first coat techniques will yield numerous pleasing finish coats.

- **Secondary Coating**

Depending upon the application selected, Secondary coloring will provide aesthetic appeal to a project. There are Several products available. Contact our Technical Team for Product Selection

- **Notes**

Before secondary coloring, the finish coat must dry sufficiently to bear the foot traffic of the applicator (if on floor), usually overnight, depending upon weather. Scrape the surface of finish coat with a floor scraper and remove any loose material.

Sampling Note

Due to condition specific sites, always prepare an adequate number of test areas. Wear protection system. Include aesthetic suitable for products' intended use. Onsite sample approval is especially critical in a substantial, heavy traffic situation or for custom coloration.

Initial Setting & Curing

Quick drying of the product because of sun and wind must be prevented. Do not mix extra water or product to the ready mortar. This product (depending on weather conditions) should achieve initial set within 6 to 8 hours. Like concrete, full cure is reached at 28 days.

Tools and Cleaning

Mixer, trowel. Tools and mixers can be cleaned with water when the product is fresh

Packing & Shelf-Life

Packaging	5Kg and 20Kg Pails
Consumption	Depending on the type of the surface, app. 25-30m² per bag of 20kg, depending on thickness of application
Shelf-life	In original pails, on wood pallets away from humidity app. 12 months

Safety, Ecology and Disposal

Avoid contact with skin and eyes. Use protective gloves, clothing, and goggles. For more information, please refer to Product Safety Information Form. (MSDS)

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