



MiraGard Granite

Product Technical Data Sheet

MiraGard Granite is a water-based dual component, self-crosslinking acrylic resin binder specifically designed for use as a decorative vinyl flake broadcast system to simulate the depth and texture of natural granite stone. It can be used as a topcoat for Miracote MPC, MiraFlex XL, and MiraFlex II.

It can also be used as a protective coating over properly prepared conventional concrete and other types of construction substrates.

WHERE TO USE

- Balconies, walkways, and other pedestrian surfaces.
- Stand-alone protective coating for concrete surfaces.
- For use in recoating other acrylic-based topcoats.
- Exterior and interior concrete and other surfaces.
- Commercial and institutional office flooring.

ADVANTAGES

- Durable, long lasting finish.
- Excellent weather resistance.
- Good wear and abrasion resistance.
- UV stable for superior color retention.
- Outstanding hiding power.
- Environmentally friendly; VOC compliant.
- Fast drying for quicker recoating.
- Moisture vapor permeable – “breathable”.
- Good resistance to moisture absorption.
- Water-based for easy clean-up.
- Available finishes in gloss, satin, and matte.

THEORETICAL COVERAGE RATES

175-200 sq. ft./gal @ 8 to 9 mils (wft)

Microflake: 1/8” (4-6 sq. ft./lb.) - 1/16” (3-5 sq. ft./lb.)

PACKAGING AND COLORS

Component A: 1-gal, 5-gal (15 Standard Colors)

Component B: 1-gal, 5-gal (Clear)

Microflake (1/16” or 1/8”): 40-pound box

Blends: Standard blend and custom blends available.

MIX RATIO

Component ‘A’: Component ‘B’ = 1:1 by volume.

SHELF LIFE AND STORAGE

One year from the date of manufacture provided containers remain unopened and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C)

Vehicle Type..... Acrylate copolymer in aqueous dispersion

Solids Content A/B Mixed.....42%

Gloss 60° Gloss Meter..... >75+

Cleaning Solvent..... Water

Physical Properties

Flexibility Excellent

Weathering Excellent

Abrasion Resistance..... Excellent

Curing Time (77°F)

Dry to Touch..... 1 hour

Recoat..... 2 hours

Traffic..... 24 hours

Temperature Limit..... Continuous..... 180°F

Intermittent..... 255°F

Color Retention

No fading/deleterious effect.

Atlas Twin-Arc Weatherometer – 20 mins.

Cycle - 17 mins: Dry - 3 mins: Wet - 300 hours.

Accelerated Ultraviolet Light Exposure

No fading or visible deleterious effect under 10X magnification.

Desert Sunshine Exposure Test, Inc., Phoenix, Arizona

“Procedure EMMA” (mirror-accelerated exposure)

OVERVIEW OF INSTALLATION STEPS

• **Surface Preparation** - All surfaces must be clean, sound, dry and free from any bond inhibiting substances including, but not limited to, grease, oil and any other contaminants or loosely adhered materials. For concrete substrates, a minimum concrete surface profile of CSP-2 to CSP-3 is required depending on overall substrate and application conditions, and coating or sealing requirements. At the time of application, minimum and maximum substrate temperatures must be 50°F (10°C) and 90°F (32.2°C), respectively. Temperatures outside these limits may negatively affect film formation and lead to other application issues detrimental to performance and aesthetics.

• **Mixing** - Prior to use, thoroughly agitate or mechanically mix *MiraGard Granite* Components A and B with drill and paddle at low speed to ensure any settlement of solids are brought back into suspension. Empty entire contents of component A and component B into a clean mixing vessel and thoroughly mix for a minimum of 1 minute.

Application – Primer: Prior to applying *MiraGard Granite* direct to concrete the use a suitable primer is required, such as *MiraPrime WB* or *MiraPrime ML* using only a 3/16” or ¼” maximum nap roller. Allow the prime coat to dry until completely tack free. Priming is not required when applying *MiraGard Granite* over Miracote MPC, MiraFlex XL or MiraFlex II.

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Broadcast Receiving Coat: Pour out mixed MiraGard Granite broadcast binder coat in a large ribbon across the primed concrete surface as soon as primer becomes tack free. Spread evenly with a notched squeegee, and back-roll epoxy with a high quality 1/4" nap roller to achieve millage consistency of the wet film. Repeat in the same manner when installing a double broadcast system.

Broadcast Microflake: Immediately broadcast microflake chips in a rainfall pattern over the *MiraGard Granite* binder coat to ensure a smooth and even surface. Continue to broadcast to excess until there are no visible areas of glistening resin. Allow broadcasted binder coat to sufficiently cure then sweep and vacuum excess and unadhered flake. Repeat in the same manner when installing a double broadcast system.

Lock/Seal Coat: To lock down the microflake surface apply two (minimum) or three (preferred) coats of *MiraGard HDWB Gloss Sealer* using a 1/4" maximum nap roller. Allow 60 to 90 minutes of cure time between coats. For a more authentic natural granite look, apply the final coat utilizing *MiraGard HDWB Matte Sealer*. If a higher gloss is preferred, apply the final coat with *MiraGard HDWB Sealer in Satin or Gloss*.

FOR BEST RESULTS

- Always install a minimum 4' by 4' test area or job site mock-up for owner approval of acceptable color, texture, finish, adhesion, and any other critical requirement prior to proceeding.
- Literature is occasionally amended when required so it is best practice to verify current versions of product technical data sheets (PTDS), safety data sheets (SDS), and installation guides (IG's) prior to the submittal process. Download at www.miracote.com.
- Always protect materials from excessive heat and cold, and pre-condition to room temperature as necessary.
- Regularly check wet film thickness with a mil gauge. Monitor consumption to ensure correct application rates are obtained.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for observation and making recommendations, and do not assume any liability for supervision or quality control.
- When applying *MiraGard Granite* directly to concrete substrates do so using a double broadcast method over primed concrete substrate.
- Measure substrate temperatures to ensure that material is applied when temperatures are between 50°F (4.5°C) and 90°F (32.2°C) during placement.

LIMITATIONS

- Apply only to clean, relatively dry surfaces.
- Must be applied only to properly prepared substrates.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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