



MiraGard NanoGlass

Product Technical Data Sheet

MiraGard NanoGlass is a clear, single component, water-based, lithium-fortified potassium colloidal silicate that densifies new and existing pool and spa plaster finishes. Based on superior inorganic mineral technology, NanoGlass is also suitable for use on other cementitious construction materials.

WHERE TO USE

- New and existing pool and spa plaster finishes.
- Marcite and polished plaster.
- Exposed white or colored quartz finishes.
- Exposed white or colored pebble finishes.
- Smooth troweled colored plaster.
- Smooth troweled colored quartz finish.
- Smooth troweled white plaster and unexposed quartz finish.

ADVANTAGES

- Cures, seals, and densifies new/existing plaster.
- Deep penetration due to smaller molecule size and shape.
- 90%+ reduction of plaster dusting with quartz and pebble finishes
- Water thin micro-crystalline technology – penetrates fast.
- Faster reacting and less expansive ion than sodium silicate.
- Balances chemistry between water and plaster.
- Reduces color loss and potential for etching and calcium nodules.
- Minimizes the potential for micro-cracking and dusting.
- Converts Ca(OH)₂ (soluble) into CSH (insoluble).
- 80% reduction in plaster moisture absorption.
- Modified with lithium – self-reactive in low pH conditions.

THEORETICAL COVERAGE RATES

Fresh and Cured Plaster:

Two coat application is required 250-400 sq. ft. per gallon.

**Two applications required on plaster for maximum function and protection. Consumption rates are dependent on porosity, substrate profile, and the specific plaster mix. The above rates of application represent typical values. Mockups are recommended to verify.

PACKAGING and COLORS

1-gallon can Color: Clear

5-gallon pail

MIX RATIO

Single component – ready to use.

SHELF LIFE AND STORAGE

Two years from the date of manufacture when unopened and material is stored in a protected environment free from moisture, excessive heat, freezing temperatures, and direct sunlight.

OVERVIEW OF INSTALLATION STEPS

- **Preparation – Fresh Plaster Finishes:** Upon final set, plaster finishes require no specific preparation procedures other than exposed finishes require a thorough washing at low pressure to remove neutralizing residues, debris, and any other pore blocking substances. Both exposed and unexposed plaster finishes need to be thoroughly dry to the touch prior to applying *MiraGard NanoGlass*.
- **Preparation – Existing Plaster Finishes:** Acid wash and neutralize existing plaster finishes to remove any substances that may inhibit penetration such as scale, stains, calcium-based deposits and any other foreign matter. Allow plaster finishes to be thoroughly dry to the touch prior to applying *MiraGard NanoGlass*.
- **Mixing** – A single component ready to use liquid, *MiraGard NanoGlass* only needs to be briefly shaken before use. Do not alter or dilute in any way and use strictly as supplied in original containers.

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

Vehicle Type.....	Water-based solution
Color	Clear
Flash Point.....	None
Flammability	None
Odor.....	None
pH.....	11 - 12
Weight per gallon.....	9.2 lbs./4.17 kg
Specific Gravity.....	1.26
VOC (grams/liter).....	0.0
Drying Time	2-3 hours

- **Application** – Depending on the type of application, *MiraGard Nano-Glass* can be applied in a variety of methods including brush, roller, or spray apparatus.

- **Cured and Fresh Plaster Applications** – Apply *MiraGard NanoGlass* when plaster finishing is complete and has achieved sufficient final set and is hard enough to resist foot traffic. Apply uniformly via low-pressure spray at a rate of 250 to 350 square feet per gallon until a light wet sheen appears on the plaster surface. Avoid over-application and puddling while having a second worker back-rolling drips and runs. Immediately remove *NanoGlass* from non-plaster surfaces with a clean cloth dampened with cool potable water. Once the sheen from the first application has faded, repeat with a second application in the opposite direction. Again, immediately remove from non-plaster surfaces. Refer to the appropriate Install Guide (IG) regarding cure times for filling the pool.

FOR BEST RESULTS

- Always install a minimum 4' x 4' on-site mock-up to verify actual coverage rates, and for approval of acceptable color, texture, finish, adhesion, and any other critical requirement acceptable to the owner prior to proceeding with the installation.
- Verify and download current versions of product technical data sheets (PTDS), material safety data sheets (MSDS), and installation guides (IG) at www.miracote.com.
- Protect materials from excessive heat and cold, and pre-condition to room temperature, as necessary.
- Measure surface and ambient temperatures to ensure the material is only applied when temperatures are 40°F (4.5°C) and rising during placement and cure time.

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LIMITATIONS

- Protect MiraGard NanoGlass treated surface from rain for a minimum of two hours after final application.
- Can etch or stain glass, tile, metal and other non-porous materials. Avoid contact and cloth wipe clean with potable water immediately.
- Do not apply if minimum/maximum ambient and substrate temperatures are 40°F (4.5°C) and above 100°F (37.8°C) 24 hours prior to and following application.
- 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. This does not assume any liability for supervision or quality control.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



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