



# Miracote Mirastain

## Product Technical Data Sheet

Mirastain is a concentrated, water-based, co-polymer penetrating architectural stain for use on cementitious microtoppings, overlays, conventional concrete and other porous masonry surfaces. Formulated to be friendly with our environment and LEED-compliant, Mirastain penetrates and bonds within the pore structure of cementitious or masonry surfaces to achieve vibrant long-lasting transparent colors in a flat finish with excellent resistance to UV exposure and degradation. For unique and distinctive looks, Mirastain concentrate is diluted on site with an appropriate solvent and pigmented with our ColorPax LIP dispersion packs. Mirastain is then ready to be applied in a single color or in multiple colors applied in different layers.

Unlike acid and many other types of concrete stains, Mirastain has been designed to leave no residue that requires clean up or neutralization prior to the application of a finish coat or sealer. As soon as Mirastain has dried, usually within 30 minutes, it can be sealed with any one of several available clear, water-based Miracote sealers and topcoats such as MiraThane WB (aliphatic polyurethane), MiraGard HDWB Sealer (acrylic), or MiraFlor WB (epoxy). Depending on specific service and exposure conditions, other clear sealers and topcoats are available to protect the new Mirastain application. Contact a local Miracote representative for the most appropriate choice. Most Miracote sealers and topcoats are available in Gloss, Satin and Matte finishes.

### ADVANTAGES

- Penetrating stain technology – no surface film that can peel
- “Can’t Go Wrong” application – make changes or start over
- Easy clean up – with just water and soap.
- Versatility of application – spray, roller, sponge, brush
- UV stable Miracote standard and custom colors
- Suitable for most porous surfaces both interior and exterior
- No rinsing or neutralization needed for sealer application
- Rapid drying - can be sealed within 30 minutes
- Excellent flexibility to adjust dilution and pigmentation
- LEED Credit Points available in 5 different classifications

### COVERAGE RATES

250 - 800 sq. ft. per gallon, depending on application technique, desired antiquing effect, or substrate type.

Actual consumption rates are dependent on many factors including, but not limited to, substrate texture and porosity, multi-layered applications and normal allowance for waste.

### PACKAGING and COLORS

One gallon cans, Five gallon pails\* - re-closable lids  
ColorPax-LIP and ColorPax-W single pigment pack unit  
\*Mirastain containers are short-filled to allow for the dilution with appropriate solvent, typically isopropyl alcohol.

### MIX RATIO

Add solvent to Mirastain: 1/3 gallon of solvent to 1 gallon can or 2 gallons of solvent to a 5 gallon pail  
Add ColorPax-LIP up to 8% maximum by volume to Mirastain  
Add ColorPax-W up to 4% maximum by volume to Mirastain

### SHELF LIFE AND STORAGE

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

### INTENDED USES

- Stain and refurbish new and existing concrete
- Horizontal, vertical and overhead surfaces
- For accenting Miracote MPC-MT and MiraStamp
- Enhancement of parking decks, columns, walls
- Restore the appearance of stamped concrete
- Pool decks and patios
- Decorative floor finishes and microtoppings
- Concrete pavers, masonry, split face and fluted block
- Tilt-up concrete and precast concrete

### TYPICAL PHYSICAL PROPERTIES @ 75°F (24°C) @ 50% R.H.

Vehicle Type.....	Acrylic polymer emulsion
Pigment Class.....	UV stable pigment dispersion
Polymer .....	Promotes adhesion to concrete surface
Sheen.....	Matte
Drying time .....	Maximum 30 min to 1 hour
Flash Point.....	>220°F

### 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 requirements prior to proceeding with the installation.
- Verify that the most current versions of product technical data sheets (PTDS), color charts, material safety data sheets (MSDS), and installation guidelines (IG) are being utilized for project submittals and application reference.
- Protect materials at all times from excessive heat and cold.
- The proper application of this product is the sole responsibility of the end user. Job site visits by Miracote representatives are only for the purpose of making recommendations. Supervision and quality control are the sole responsibility of the user.
- Measure surface and ambient temperatures to ensure that material is only applied when temperatures are 40 F (4.5 C) and rising during placement and cure time.

### OVERVIEW OF INSTALLATION STEPS

- **Surface Preparation** - All surfaces to be stained must be clean, sound and free from any bond inhibiting substances including, but not limited to, curing compounds, sealers, grease, oil and any other contaminants or loosely adhered materials that may interfere with stain penetration. For concrete substrates, an open pore structure and minimum surface profile of CSP-1 is required depending on overall substrate conditions and staining requirements. Concrete and other porous or absorptive substrates can be slightly damp or dry, depending on desired color accent or effect, at the time of the Mirastain application to the substrate.
- **Mixing** - Mirastain must be mixed mechanically using a high-speed drill with a “Jiffy-type” or similar Miracote-approved mixing paddle. Available in one and five gallon short-filled containers, Mirastain is diluted on site with isopropyl alcohol (IPA) to achieve the correct volume of ready-to-use stain. One gallon units contain 2/3 gallon of concentrate to which 1/3 gallon of IPA is added, five gallon units are short-filled with three gallons and get diluted with two gallons of IPA. While mixing the Mirastain concentrate with a high-speed drill, slowly add the IPA and continue mixing for one minute. For pigmentation, add appropriate Miracote ColorPax LIP or ColorPax W and mix thoroughly.

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### OVERVIEW OF INSTALLATION STEPS

- **Application** – Mixed and pigmented Mirastain can be applied using a trowel, roller, brush, broom, sponge, or spray equipment. The use of an HVLP (high pressure-low volume) sprayer offers excellent control and outstanding results when accenting the Mirastain application with highlights and variegations. Multiple layers of Mirastain combinations applied in tandem create infinite styles of color variegations and effects. Mirastain can also be diluted with water for lighter intensity.
- There is no need to rinse or neutralize the surface after treatment with Mirastain. Once dry, 30 to 60 minutes under normal conditions, immediately apply a clear Miracote floor sealer or topcoat to assure durability and longevity. If a sealer cannot be applied right away, protect the application from traffic and contamination until it one can be applied.

### LIMITATIONS

- As with all colored stains, results may vary over natural porous mineral substrates.
- Mirastain must be protected with a clear sealer or topcoat to maintain a vibrant color, longevity, durability, chemical and abrasion resistance, and ensure ease of cleanability.
- Substrates to be stained must be sufficiently cured, and clean with an open pore structure for penetration. New concrete should be allowed to cure approximately 10 to 14 days.

### LIMITED WARRANTY

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**CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.**



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