



MiraGard HDWB

Product Technical Data Sheet

MiraGard HDWB is a single component, water-based, self-crosslinking pure acrylic sealer designed for interior or exterior use over Miracote cementitious coatings, overlays, and MiraGard Colorbond XL to enhance stain resistance and cleanability. Exhibiting excellent chemical and abrasion resistance, **MiraGard HDWB** is also most suitable for use to seal new and existing concrete, masonry, wood and many other surfaces.

WHERE TO USE

- As a sealer for most Miracote cementitious products.
- Excellent finish coat for MiraGard Colorbond XL
- Natural and pigmented concrete surfaces.
- Exposed aggregate concrete.
- Stamped full depth concrete and overlays.
- Natural and cast stone, slate, and flagstone.
- Colored and natural gray concrete pavers.
- Brick and other masonry surfaces.
- Unglazed tile and stucco.

ADVANTAGES

- Outstanding weathering characteristics.
- Excellent resistance to UV degradation.
- Abrasion and chemical resistance.
- Good hot tire resistance after 5 to 7 days cure.
- Excellent early wet and dry adhesion.
- Cleanable, easy to maintain.
- Wet look appearance like solvent-borne sealers.
- Available in high gloss, satin, or matte finishes.
- Meets SCAQMD and Federal VOC requirements.
- Can be pigmented with Miracote ColorPax-W

THEORETICAL COVERAGE RATES

Smooth Surface: 350 - 400 sf./gal.
Rough/Porous Surface: 300 - 320 sf./gal

Actual consumption rates are dependent on many factors including, but not limited to, substrate texture and porosity, variations in applied thickness and normal allowance for waste.

PACKAGING and COLORS

Available in:

- 1-gallon can
- 5-gallon pail
- 50-gallon drum

Clear gloss, satin, and matte sheens.

Gloss & Satin can be pigmented using Miracote ColorPax-W.

Factory pigmentation available (subject to minimum order qty.)

Dosage required: Dependent on desired opacity or translucence.

MIX RATIO

Single component – Stir, mix or agitate before use.

SHELF LIFE AND STORAGE

Shelf life is for one year from manufactured date provided containers remain unopened and when material is store in a protected environment that is free from moisture, excessive heat and freezing temperatures, and direct sunlight.

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

Vehicle Type.....	Water-based solution
Clean-up.....	Water
Color.....	Clear
Solids Content.....	27%
VOC.....	98 g/L
Physical Properties	
Flexibility.....	Good
Weather Resistance.....	Excellent
Abrasion.....	Excellent
Curing Time (77°F)	
Dry to touch.....	30 minutes
Re-coat.....	1 hour
Open to Light Traffic.....	4 hours
Normal Traffic.....	24 hours
Hot Tire Exposure.....	5 - 7 days
Routine Maintenance.....	48 hours
Leveling Ability.....	Excellent
Flash Point.....	> 100°C
Flammability.....	Non-Combustible
USDA.....	Complies for use when dry.

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-1 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. When pressure-washing concrete always allow the substrate to thoroughly dry prior to application which will minimize the potential for white blushing that can occur if water-based acrylics are applied to still damp substrates. When in doubt, a plastic sheet test can be performed to verify the presence of latent substrate moisture.

- **Mixing** – Prior to use, gently stir or agitate **MiraGard HDWB** to ensure any settlement of solids are brought back into suspension with the solvent vehicle. Mechanical mixing is not required, but if mixed in this manner do so at a very low speed to avoid air entrainment.

- **Application** – **Using spray equipment:** Hand-held pump-up sprayers or battery-operated, such as an SMK sprayer for maximum production, may be used. Apply one to two thin even coats depending on substrate porosity, performance, and service conditions. The application of two coats is recommended and will always provide the best results. Do not over-apply or let puddle onto the surface. **Using Brushes/Rollers:** Apply **MiraGard HDWB** in a continuous uniform film using conventional short nap 3/16”-1/4” high quality roller covers, lambswool applicators, or by natural bristle brush.

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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 and 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.
- It is recommended to apply in two coats at the published coverage rates. Do not apply a single thick coat or hazing may occur.
- When a satin or matte finish is desired, always apply the first coat in gloss followed by a second coat in the desired final finish/sheen.
- When pigmenting **MiraGard HDWB** always pretest to verify correct dosage rate to achieve desired degree of opacity or translucency.
- 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

- Must be applied to clean, dry substrates to avoid white blushing.
- Must be applied over properly prepared substrates only.
- Avoid application if rain is expected within 24 hours or if there is a potential for heavy mist conditions.
- Exterior exposure life is less than interior exposure life.
- Excellent hot tire resistance is achieved between five to seven days from initial application and depending on existing climatic conditions. Avoid exposure to parked vehicles when tires are hot from being on the road. Allow hot tires to sufficiently cool down if parking is necessary.

LIMITED WARRANTY

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CAUTION: ALWAYS KEEP OUT OF THE REACH OF CHILDREN.



Miracote Product Line
Crossfield Products Corp

www.miracote.com

East Coast Office
140 Valley Road
Roselle Park, NJ 07204
P: (908) 245-2808
F: (908) 245-0659

West Coast Office
3000 E. Harcourt Street
Rancho Dominguez, CA 90221
P: (310) 631-6594
F: (310) 886-9119



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