



# WATER-BASED EPOXY

Revised May 2017

## TECHNICAL DATA SHEET

### TWO-PART COMMERCIAL GRADE WATER-BASED EPOXY



#### DESCRIPTION

**Marbelite Water-Based Epoxy** is a commercial grade two component high solids concrete floor coating, specially formulated for use with the *DecorChips®* system. This coating provides excellent durability, adhesion, and chemical resistance. **Water-Based Epoxy** exhibits tile-like hardness with virtually no odor. It is ideal for areas that require a durable, nonporous, low maintenance seamless flooring solution.

#### BENEFITS/FEATURES

- ◆ Stocked in 4 colors, White, Silver Gray, Sandstone, and Black, with many other custom color options.
- ◆ Excellent adhesion and chemical resistance for a long-lasting, durable coating.
- ◆ Affordable, low cost coating.
- ◆ Long pot-life for ease of use with the Marbelite *DecorChip®* system.
- ◆ Easy to clean and maintain for a life-time beautiful finish.
- ◆ Compatible with *Marbelite Acrylic Urethane* and *Polyaspartic* top coats.
- ◆ Low odor for acceptable use in areas where solvent fumes are prohibited.

#### RECOMMENDED APPLICATIONS

Effective on applications such as...

- ◆ Factories
- ◆ Warehouses
- ◆ Showrooms
- ◆ Garages
- ◆ Bathrooms
- ◆ Locker Rooms
- ◆ Industrial Kitchens
- ◆ Nursing Homes & Hospitals
- ◆ Schools
- ◆ Cafeterias
- ◆ Walls
- ◆ Many other uses may be acceptable.

#### SPECIFICATIONS/COMPLIANCES

- ◆ VOC compliant based on limits provided by MPI GPS-1 and LEED.



#### TECHNICAL INFORMATION

Solids/Active Content, Percentage by weight	51% +/- 1%
Dry Time—Tack Free	6 - 12 hours
Dry Time—Foot Traffic	24 hours
Dry Time—Heavy Traffic	3 days
Re-Coat Time Window	12 - 48 hours
Application Temp	50°F - 100°F
Mix Ratio (a/b volume)	3:1
Pot Life	3 - 5 hours
Coverage (varies)*	200 - 250 sq. ft. / gallon*
VOC (Volatile Organic Compound) Content	235 grams/Liter
Dry Appearance	Tinted and Medium/High Gloss

Testing is accordance with procedures outlined in EPA Method 24, "Volatile Organic Content VOC of Paints and Related Coatings". The solids content was determined in accordance with ASTM D 5095 and the VOC was calculated in accordance with ASTM D 3960.

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# Water-Based Epoxy

## INSTRUCTIONS FOR USE

**SURFACE PREPARATION:** Surface must be in good condition and free of efflorescence and contaminants. Surface should be clean and dry. Fill cracks and spalls with *Marbelite Quick Crack Fill*. (See *Quick Crack Fill* technical data prior to use.) Proper surface preparation will determine the quality of the total finished job. For best results, we recommend that previous coatings be removed by sanding or mechanical scarification.

**Steel-Troweled Concrete Floors:** Acid etch with a 20% solution of muriatic acid and water, allow to sit for 15-20 minutes, thoroughly rinse, and allow to dry. Neutralize residual acid with ammonia or a 10% solution of baking soda and water. Alternatively, diamond grinding is also acceptable surface preparation for steel-troweled concrete floors.

**Previously Coated or Old Concrete:** Remove loose paint, dirt, grease, chalky, powdery residues and all mildew and algae. Old coatings should be dulled by light sanding or removed completely by diamond grinding for best results. Patch and repair holes and cracks to provide a uniformly smooth surface. If mildew and algae are present, remove by pressure washing or scrub with a solution of 15% chlorine and water, then rinse and allow to dry.

Substrate and air temperature must be no less than 50°F and not exceed 100°F. Avoid applications during periods of high humidity. If applied outside these limits, the coating may not achieve adequate film formation. Note that in direct sunlight, substrate temperature can exceed 150°F which can result in product failure.

**MIXING:** Add entire contents of Part B into Part A. If mixing less than a full kit, mix at a ratio of 3 parts A to 1 part B. Mix using a low speed mechanical drill for 2-3 minutes until well blended. **Induction Time:** Mixed material must sit for 10-15 minutes prior to application; this is required to start the reaction. **Tinting:** Universal Colors water-based tints can be added to white base up to 6 oz. per gallon and accent base up to 12 oz. per gallon. **Reduction:** Add up to 16 oz. of clean water per gallon to reduce viscosity or for deeper penetration on the first coat. Adding water will extend the dry time.

**COVERAGE RATE:** *First Coat:* 200-250 ft<sup>2</sup> per gallon\* *Optional Second Coat:* 250—300 ft<sup>2</sup> per gallon\*

\*Coverage rates may vary depending upon surface porosity, texture, application technique and film thickness. Excessive build up should be avoided.

**APPLICATION:** Pour mixed material in a large paint tray or a 5-gallon bucket. Use a dip-and-roll method and a 3/16" - 3/4" shed-free, nap roller cover. Back-rolling is recommended.

**Top Coats:** For improved abrasion and chemical resistance, it is recommended to clear coat with *Marbelite Acrylic Urethane* or *Polyaspartic*.

**For application with *DecorChips*®:** Immediately after back-rolling, apply *DécorChips* wearing spiked shoes, hand broadcast, throwing chips in an upwards motion into wet epoxy. Recommended coverage: 10 square feet per pound full broadcast (to rejection). Remove loose flakes using a leaf blower or industrial vacuum and a light scraping after coating has been allowed to cure for 24 hours. Uncontaminated used chips can be re-used by adding them into a fresh batch of chips for the next job! Clear seal with *Marbelite Acrylic Urethane* or *Polyaspartic*. It is always recommended to clear coat a *DécorChips* surface for durability. See data sheet for selected sealer for more information. Ask about our instructional video for installing *DécorChips* for more detailed information.

**PLEASE NOTE:** It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application.

## PRECAUTIONS AND LIMITATIONS

- ◆ This product will freeze during storage. Store at temperatures above 50°F.
- ◆ All HVAC ventilation ducts should be somehow blocked prior to application so fumes are not distributed.
- ◆ If using indoor, use adequate ventilation.
- ◆ DO NOT BREATHE SPRAY MIST. Wear an appropriate respirator (NIOSH/MSHA approved) safety goggles, and gloves.
- ◆ Avoid breathing dust when sanding.
- ◆ Avoid prolonged contact with skin and avoid contact with eyes.
- ◆ It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- ◆ Please be aware, using this product for floor applications where it has been clear sealed, may become slippery when wet. An anti-slip additive, such as *Marbelite Slip Grip*, can be added to reduce slip hazards.
- ◆ All new concrete must be cured for at least 28 days prior to application.
- ◆ DO NOT TAKE INTERNALLY.
- ◆ KEEP OUT OF REACH OF CHILDREN.
- ◆ WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS SUCH AS BRAIN DAMAGE ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD, or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

**CLEAN UP:** Use water and soap. Dispose of containers in accordance with local and federal regulations.

**PRODUCT REMOVAL:** Dried, cured material may be removed with a commercial paint stripper or by using a diamond grinding method, sandblasting method, or similar mechanical action.

**SHELF LIFE:** Up to one year from manufacture date in its original, unopened container, stored at room temperature.

**PACKAGING:** Available in 1 gallon kits, 4 gallon kits are available upon request.

**SPECIAL NOTES:** Always read all technical information, label, and SDS (MSDS) prior to use. This information can be found online or by calling customer service at the number below.

## LIMITATION OF LIABILITY

Marbelite International Corp, "Seller" warrants that if any goods supplied prove to be defective in workmanship or material, that Seller shall replace them or refund their purchase price. This warranty is made in lieu of any and all other warranties expressed or implied. Before application, the User shall determine the suitability of the product for its intended use and User assumes all risks and liabilities whatsoever in connection therewith. Under no circumstances shall the Seller be liable for incidental, consequential, or other damages for alleged negligence, breach of warranty, or strict liability arising out of use or handling of this product. The sole liability of Seller for any claim arising out of the use or sale of defective product shall be for the User's purchase price.

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