

"We Make Concrete Beautiful"



EPOXYSL-100

Revised May 2017

TECHNICAL DATA SHEET

100% SOLIDS CLEAR SELF LEVELING EPOXY



RECOMMENDED APPLICATIONS

Effective on applications such as...

- ◆ Auto Service Centers
- ◆ Warehouses
- ◆ Laboratories
- ◆ Aircraft Hangers
- ◆ Cafeterias
- ◆ Garages
- ◆ Quartz & Metallic Flooring applications.

SPECIFICATIONS/COMPLIANCES

- ◆ Dried coating is USDA accepted.
- ◆ Meets OTC, CARB, LADCO & SMAQMD VOC restrictions

CHEMICAL & STAIN RESISTANCE

Butanol.....	C
Xylene.....	C
1,1,1 trichloroethane.....	B
Methanol.....	A
Gasoline.....	C
Skydrol B-4.....	B
Ethylene Alcohol.....	C
MEK.....	A
Rating key: A—not recommended, B—2 hour term splash spill, C—8 hour term splash spill, D—72 hour immersion, E—long term immersion.	

10% Sodium Hydroxide.....	E
50% Sodium Hydroxide.....	D
10% Sulphuric Acid.....	C
70% Sulphuric Acid.....	A
5% Acetic Acid.....	B
10% HCl (aq).....	C

•• A chemical exposure test should always be performed prior to application resistance to ensure satisfactory results are obtainable.

DESCRIPTION

Marbelite EpoxySL-100 is a 100% solids, two component, cycloaliphatic amine, self-leveling epoxy system. **EpoxySL-100** offers excellent durability including abrasion resistance, chemical resistance, and hot tire resistance. **EpoxySL-100** is a low odor, user friendly high performance concrete flooring system.

BENEFITS/FEATURES

- ◆ Excellent for a variety of seamless, high build concrete flooring applications.
- ◆ Enhanced flow and leveling properties make this a favorite by flooring contractors.
- ◆ Use this product as a base coat and metallic coat in the *Marbelized Metallix* flooring system.
- ◆ Can be tinted for solid color applications with *Epoxy ColorPack* (stocked in 13 colors).
- ◆ VOC compliant for most areas in the United States and Canada.

TECHNICAL INFORMATION

Solids/Active Content, Percentage by weight	100%
Dry Time—Tack Free	6 - 8 hours
Dry Time—Foot Traffic	14 - 18 hours
Dry Time—Heavy Traffic	2 - 7 days
Re-Coat Time Window	10 - 16 hours
Tensile ASTM D638	6200
Comprehensive Strength @ Yield (psi)	11,200
Application Temp	50°F - 80°F
Mix Ratio (a/b volume)	2:1
Pot Life	5 - 10 minutes
Coverage (16 - 18 mils drf.)	90 - 100 sq. ft. / gallon
VOC (Volatile Organic Compound) Content	Less than 5 grams/Liter
Dry Appearance	Clear and High Gloss
Abrasion Resistance (Tabler Index, ASTM 4060-81, CS-17 Abrasion Wheel, 1000 gram load)	28.1 mg loss

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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EpoxySL-100

INSTRUCTIONS FOR USE

SURFACE PREPARATION: A fine to medium shot blasting or the use of a diamond grinding machine to obtain a surface profile of a CSP—3 to a CSP—5 is suggested for ultimate adhesion. A test should be made to determine that the concrete is dry; this can be done by placing a 4 x 4 plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate should be ready to coat. More advanced moisture testing kits should be used on floors with suspected moisture problems. **EpoxySL-100** is designed to be applied only to primed surfaces within the recommended recoat window of the primer or previously sealed surfaces that have sufficient adhesion to the substrate. Apply coating to a clean surface that is completely dry and free of oil, dirt, grime, wax, detergent or any incompatible paint or coating. If applying to an existing fully cured and fully adhered coating, the surface must be cleaned and sanded with 80—100 grit sandpaper. If multiple coats of **EpoxySL-100** are required apply the second coat as close as possible to the suggested recoat time (see technical information section on this data sheet). Do not exceed 24 hours to recoat or a light sanding may be needed for adequate adhesion between coats.

PRIMING: Prime the surface with *Marbelite Water Based Epoxy*. Refer to Water Based Epoxy data sheet for application information.

Substrate and air temperature must be no less than 40°F and not exceed 80°F. If applied outside these limits the coating may not achieve adequate film formation and may have excessive air entrapment, bubbles, blushing or hazing. Note that in direct sunlight, substrate temperature can exceed 150°F which can cause extreme bubbling issues.

MIXING: If mixing less than a full kit, mix Part A and Part B separately with a stir stick, low speed mixer or vigorously shake container prior to blending then smaller kit to ensure uniform distribution of all ingredients. Pour a full pre-packaged kit of 2 parts of Part A to 1 part of Part B together and mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and homogeneous. Avoid whipping air into the coating. Improper mixing may result in product failure. It is important to pour the mixed material out of the bucket and start laying it as soon as it is mixed to avoid early setting.

COVERAGE RATE: *First Coat:* 90—100 ft² per gallon* @ 16—18 mils

*Coverage rates may vary depending upon surface porosity, texture, application method and prior sealer application. Excessive build up should be avoided.

APPLICATION: Apply the mixed material with a brush, roller, trowel, notched squeegee or gauge rake and then backroll evenly to maintain the desired thickness within the usable pot life time frame, as well as the recommended temperature and relative humidity guidelines listed in the Technical Information section. If concrete conditions or aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating. If the material becomes thick while applying and sticking to the application tools, stop applying and discard the mixed material. At this point, it has reached the end of the usable pot life. While applying, keep a wet edge to prevent streaking. It is recommended to work in sections usually using control joints as dividers to ensure proper application results. Do not allow to Puddle! If recoating after 24 hours a light sanding using a fine sanding screen may be needed to ensure adequate inner coat adhesion.

PLEASE NOTE: Applying material outside the suggested parameters may result in product failure. It is always recommended to test the product in a small, inconspicuous area (on the same concrete substrate) for desired results prior to application. When applying, do not exceed 400 ft² per gallon. Applying too thin of a coating may cause inadequate film formation or performance expectations may be limited. **DO NOT USE ON BRICK.**

PRECAUTIONS AND LIMITATIONS

- ◆ This product will freeze during storage. Store at temperatures above 40°F.
- ◆ All HVAC ventilation ducts should be somehow blocked prior to application so solvent fumes are not distributed.
- ◆ If using indoor, use proper ventilation while applying and for hours after application to ensure fumes are removed.
- ◆ This product, specifically Part B is corrosive. Wear proper safety equipment while handling material.
- ◆ It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- ◆ Please be aware that this product when cured, may be 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.
- ◆ It is not recommended to thin this product. Improper thinning may cause sealer to delaminate in a short time frame.
- ◆ This product may darken the surface of many new and existing concrete slabs. Test prior to use.
- ◆ Physical properties listed on this technical data sheet are typical values not specifications.
- ◆ This product is not UV stable and should not be used outdoors or in areas exposed to excessive sunlight.

CLEAN UP: Use xylene. 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 3 gallon kits. Also available in 1.5 gallon, 4.5 gallon, and 15 gallon kits 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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