



POLYASPARTIC-100

Revised May 2017

TECHNICAL DATA SHEET

TWO COMPONENT, 100% SOLIDS, POLYASPARTIC POLYUREA

DESCRIPTION

Marbelite Polyaspartic-100 is a stand above all, two-component polyaspartic aliphatic polyurea utilizing innovative proprietary nanotechnology. It provides a high gloss clear coating. Its superior penetration and bonding strength can provide years of abrasion, impact, and wear resistance. **Polyaspartic-100** yields chemical splash and spill resistance and hot tire pick-up resistance much like its epoxy counterpart.



BENEFITS/FEATURES

RECOMMENDED APPLICATIONS

SPECIFICATIONS/ COMPLIANCES

- ◆ Excellent long term wear capabilities allow for longer life without re-coating.
 - ◆ Quick dry time provides unmatched labor saving capabilities above epoxies and polyurethanes.
 - ◆ UV stability allows this to be used in areas saturated by the sun throughout the day.
 - ◆ This is an excellent top coat over *Marbelized Metallix*, *DecorChips*®, and many other systems.
 - ◆ Can be tinted for solid color applications with *Marbelite Polyaspartic Color-Pack* (available in 13 colors).
 - ◆ VOC compliant for most areas in the United States and Canada.
- Effective on applications such as...
- ◆ Auto Service Centers
 - ◆ Garages
 - ◆ Warehouses
 - ◆ Laboratories
 - ◆ Cafeterias
 - ◆ Residential and Commercial
 - ◆ High Traffic Areas
 - ◆ Aircraft hangers
 - ◆ Many other interior concrete floors where a fast curing, high performance coating is necessary.
- ◆ Dried coating is USDA accepted.
 - ◆ Meets OTC, CARB & LADCO & SCAQMD VOC restrictions.



PROPERTY PROFILE

Tensile Strength (ASTM D 638).....4,500 to 5,000 psi
 Mandrel Bend (ASTM D 522).....Passes, no cracking, 1/8" mandrel bend
 Falling Sand Abrasion Resistance (ASTM D 968).....Clear, 30 liters sand/ 1 dry mil

TECHNICAL INFORMATION

Solids/Active Content, Percentage by weight	100% +/- 2%
Dry Time—Tack Free	2 - 3 hours
Dry Time—Foot Traffic	3 - 4 hours
Dry Time—Heavy Traffic	24 hours
Re-Coat Time Window	2 - 18 hours
Application Temp	50°F - 80°F
Mix Ratio (a/b volume)	1:1
Pot Life	15-20 minutes
Coverage (*varies—see instructions section for details)	175 sq. ft. / gallon*
VOC (Volatile Organic Compound) Content	Less than 100 grams/Liter
Dry Appearance	Clear and 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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Polyaspartic-100

INSTRUCTIONS FOR USE

SURFACE PREPARATION: The concrete surface must be deemed mechanically and structurally sound, completely clean, and dry. To achieve the above desired results, a mechanical grinding method should be performed to an approximate 50-100 grit profile to insure flatness of the substrate, to remove surface impurities, and to profile the surface of the floor to a CSP-2, as recommended by the ICRI Technical Guideline No. 03732. If mechanical means of preparation are not suitable, it is recommended to prepare the surface with a muriatic acid solution of 1 part acid to 4 parts water. Thoroughly rinse or pressure wash the surface clean to remove all acid solution. Note, it is recommended to test the pH level of the surface after rinsing and neutralize if necessary, using ammonia or baking soda and water.

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. Proper mixing is pertinent to application success. In equal parts (1:1), mix Part A and Part B using a clean, dry working pot (mixing container). Stir contents approximately 30-60 seconds. Avoid over-mixing or creating a vortex which could introduce moisture content to the mixture. No induction time is required prior to use, nor after mixing. If integrating anti-skid media agents, only do so after Parts A & B have been thoroughly mixed.

COVERAGE RATE: *First Coat:* 100—250 ft² per gallon* *Optional Second Coat:* 125—275 ft² per gallon*

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

POT LIFE: Expected workable pot life after mixing Part A and Part B is approximately 20-25 minutes at a common temperature range of 70 F -80 F at roughly 50% relative humidity. Please note that higher temperatures and high percentages of humidity will shorten pot life, as colder temperatures and lower percentages of humidity will extend the coatings pot life.

APPLICATION: Application should be completed using a 3/8" synthetic nap, phenolic core roller, or a lambs wool cover for pigmented, stained floors, or media coats. Use a foam squeegee and back roll with the roller over media floors (quartz or chips). It is recommended to use only 18" wide squeegees and rollers. If considering using airless application method, consult the manufacturer prior to application. Please note that the use of pump-up style spray bottle may create visible bubbles, blisters, and pinholes and is not recommended.

FOR PERSONAL PROTECTION USE GLOVES, GOGGLES, AND RESPIRATORS.

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. Increased temperature will shorten re-coat window. Decreased temperature will lengthen re-coat window.

PRECAUTIONS AND LIMITATIONS

- ◆ This product will not freeze during storage, however, allow temperature to rise to 50°F prior to application.
- ◆ 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.
- ◆ It is not recommended to apply product over carpet, tile, or other types of floor adhesives.
- ◆ This product performs best when applied at one or two medium-light coats, not one heavy coat.
- ◆ 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.
- ◆ SOLVENT VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

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 2 gallon kits. Ten gallon kits are available upon request, additional charges may apply.

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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