TECHNICAL DATA SHEET

SAND EPOXY

100% SOLIDS EPOXY COATING

DESCRIPTION:

Sand Epoxy is a 100% solids, two-component self-leveling epoxy designed to coat concrete floors with excellent chemical resistance. Combining the highest quality epoxy components, it seals and provides a high build floor
Polyaspartic 930 is required after application for added UV stability and abrasion resistance.

APPLICATIONS:

- Interior
- Horizontal
- Kitchens
- Bathrooms
- Utility Rooms
- Basement floors
- Breakrooms
- Foyers

SUBTRATES:

- Concrete
- Wood
- Tile

ADVANTAGES:

- **Composition -** 100% solids nanotechnology driven high-performance epoxy base coat
- **Self Leveling** and seamless
- **Excellent chemical resistance** and impact resistance
- **High strength,** tenacious adhesion
- **Low VOC's -** No solvents

APPLICATION EQUIPMENT

- Drill & Jiffy Mixer
- Spiked Shoes
- EPDM Squeegee 15-20 mil
- Painters tape, measuring and mixing containers
- Spike Roller

*For interior use only

TYPICAL PROPERTIES:

Solids: 100%

Appearance: Available in 4 vibrant colors.

Packaging: 4 Gallon kit

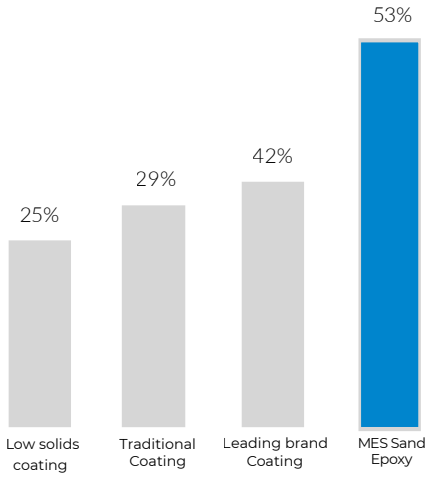
Recommended Thickness: 20-50 mils WFT

Coverage: 40-80 SF/Gal

VOC's: <30 g/L

CHEMICAL RESISTANCE

Meets the requirements of: ASTM D-2240, ASTM D-638, ASTM D-695 ASTM D-790, ASTM D-256, ASTM D-570 ASTM D-4060, ASTM D2369-20



Percentage Improvement vs. Control

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SURFACE PREPARATION

Surface must be clean, dry, and completely free of loose particles, grease, oil, or any substance that would interfere with proper bond. Moisture content in the concrete should not exceed 6%. Perform vapor testing to verify that the vapor pressure is below 3lb/24hr/ 1000 sq. ft. If moisture vapor transmission exceeds 3lbs, first use Vapor-Tek™ 440.

When applying directly to concrete, we recommend either mechanical scarification or acid etching until a suitable profile is achieved (CSP Level 3). If acid is used to clean the concrete, neutralize the surface completely and rinse it with water prior to application. Concrete must be dry for at least 24-48 hours prior to application.

When applying on a newly coated epoxy, be sure to apply within the epoxy recoat window to ensure proper adhesion to the epoxy coating. If applying topcoat outside of the epoxy's recoat window the surface must be abraded by using 80/100 grit sandpaper, diamond or Diamabrush. Be sure to sand the previous coating until no gloss is visible. Before applying the coating, be sure the sanded surface is clean, dry and free of contaminates such as dirt, dust, or other foreign materials.

RECOMMENDED TOOLS:

Best applied using 15-20 mil Squeegee. A Spike Roller is also recommended. A paint brush may be appropriate for cutting in or small-scale applications. Spiked shoes, mechanical mixing device also recommended.

MIXING

Combine three (3) Part A to one (1) Part B, by volume. Kits come prepackaged and should be used in their entirety and should not be broken down. Do not combine multiple kits when mixing. Once the material is opened, it cannot be re-sealed for later use.

1. Using a mechanical mixer, mix Part A in original container at low speed for 1 minute.
2. Add Part B into Part A and mix thoroughly for three (3) minutes or until completely uniform. We recommend using a helix style paddle mixer that reduces the amount of air that can be whipped into the resin. Create a vortex that forces the resin material to turn over inside the mixing pail. Be sure to keep paddle head below the surface to eliminate air entrapment. Do not combine more material than can be applied within a 10 - 15 minute timeframe

APPLICATION

Immediately pour entire contents of mixed Sand Epoxy onto the floor in a long bead approximately 12 - 18 inches wide. Use 15-20 mil notched squeegee to spread material evenly at 20-50 mils to a uniform thickness.

As material is being spread, a second applicator can back-roll material using a spike roller. Roll evenly across squeegee passes to minimize application lines. Do not back-roll material once Sand Epoxy begins to tack up. This can interfere with self-leveling process. Use a new mixing pail for each kit.

- Do not apply at a temperature or thickness not recommended.
- Do not delay in pouring mixed material onto the floor.
- Do not apply over loose or unsound concrete, asphalt or bitumen substrates, glazed tile or nonporous brick and tile, magnesite, copper, metal, polyesters, or elastomeric membranes.
- Moving joints and shrinkage cracks may reflect through system. Joints that are designed to move may reflect through the finished flooring system if they are not honored.
- Tire marking may occur.

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TECHNICAL SPECS

Chemistry: Epoxy

Color: Blue, White, Tan, Grey

Finish: High-Gloss

Carrier: 100% Solids

Packaging: 4 Gallon Kit , 2 component kit

Coverage: 40-80 sq. ft. per gallon at 20-50 mils wet film thickness.

Application Method: EPDM squeegee 15-20mil.

Application Temperature: 40°F-90°F with relative humidity below 80% and at least 5° over the current dew point.

Number of Coats: 1

VOC Content: 30 g/L

Tensile Elongation: 2.4%

Adhesion: >400 psi

Compressive Strength: 18,420 psi

Flexural Strength: 14,430 psi

Hardness Shore D: 80

Tensile Strength: 8,440 psi

Taser Abrasion: 28 mg loss

CHEMICAL RESISTANCE

10% Acetic Acid: E

Acetone: ES

Citric Acid 30%: E

Diesel Fuel: E

Ethylene Glycol: E

Gasoline: E

HCl (Hydrochloric Acid 15%): E

Lactic Acid 15%: E

MEK: ES

Nitric Acid 10%: F

NaCl (Sodium Chloride): E

Sulfuric Acid 20%: E

Toluene: ES

Xylene: E

NaOH (Sodium Hydroxide) 25%: E

Benzene: E

Methanol: E

E = Excellent (No adverse effect) Recommended

ES = Excellent (No adverse effect) Recommended but stains

F = Fair (Moderate Adverse Effect)

CURE TIMES (75°F) 50% RH

Pot Life: 10-40 minutes

Tack Free (dry to touch): 5 hours

Recoat or Topcoat: 8-24 hours

Light Foot Traffic: 16 hours

Heavy Foot Traffic: 48 hours

Full Cure (Heavy Traffic): 5 days

Test results are averages obtained in a controlled environment, material and curing conditions of 75°F and 50% relative humidity. Reasonable variations should be expected.

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CLEAN UP:

Clean up mixing and application equipment immediately after use. Use toluene, acetone or xylene; do not use alcohol. Follow solvent manufacturer's safety instructions. Be sure to follow all local, state and federal regulations when disposing of materials.

PRECAUTIONS/SAFETY:

Refer to the SDS sheet before use. Safety precautions must be strictly followed during storage, handling, and use. Personal Protective Equipment (PPE) should be worn at all times. PPE will include (but is not limited to): Safety glasses and high-quality nitrile gloves.

MAINTENANCE:

To maintain the appearance and extend the life of the newly sealed surface, it is imperative to have a routine maintenance program. Dirt and debris that is tracked over a finished floor will quickly scratch and dull the surface. Place walk-off mats at entrances. Sweep and mop/scrub floors regularly using soft bristles/pads and a mild cleaner. Some cleaning products and equipment or improper use of these can damage a surface. Remove spills quickly to minimize damage and/or stains. For systems that support parked vehicles or other heavy items on rubber wheels, place a small piece of nonporous material, such as sheet metal or plexiglass between the tires and floor to prevent tire marks. Reapplication may be necessary in heavy traffic areas.

SHELF LIFE:

One (1) year when stored indoors at 55°F – 85°F (13°C – 29°C) in a dry location with humidity below 65%. Do not freeze materials.

CONTACT:

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WARRANTY:

Mass Epoxy Supplies warrants our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommenced herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. No warranty is made, expressed or implied, regarding such other information, the data on which it is based or the results you will obtain from its use. We shall have no liability for incidental or consequential damages, direct or indirect. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products.

Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sales of our products. Our products contain chemicals that may cause serious physical injury. Before using, read the Safety Data Sheet and follow the precautions to prevent bodily harm.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advise are based on Mass Epoxy Supplies. present knowledge and experience. However, Mass Epoxy Supplies. assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Mass Epoxy Supplies reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

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