

100

PRODUCT DATA

Sections

09 09 96 00
High Performance Coatings

Technical Data Sheet

EPOXY MAX 100

100% SOLIDS EPOXY COATING

Description

Epoxy Max 100 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. Can use be used for solid color, flake and/or metallic epoxy systems.

A topcoat is recommended after application for added UV stability and abrasion resistance.

Solids

100%

Appearance/Color

Available in clear.
Can be used with a Ghostshield Color Additive.

Finish

High -Gloss

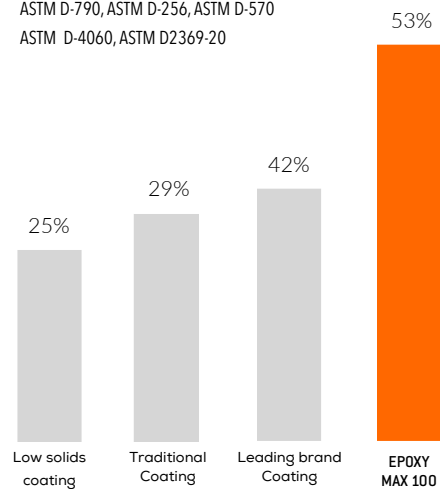
Coverage

50-150ft²/gallon.

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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TECHNOLOGY // ADVANTAGES

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
- **Easy to Apply** on warehouse floors and auto repair shops
- **Low VOC's** - low viscosity, no solvents
- **Can be used with metallic additives**, decorative flakes or non-slip additives

APPLICATION EQUIPMENT

- Drill & Jiffy Mixer
- Spiked Shoes
- EPDM Squeegee or flat metal spring blade
- 3/8" nap shed-resistant roller (tape to remove loose roller hair)
- Painters tape, measuring and mixing containers

*For interior use only

TYPICAL PROPERTIES

Appearance - Available clear. A Ghostshield Color Additive can be used.

Packaging - 3 gallon Kit

VOC's - <30 g/L

Recommended Thickness - 10-30 mils WFT

APPLICATIONS

- Interior
- Horizontal
- Garages
- Shop Floors
- Warehouses

SUBSTRATES

- Concrete

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TESTING DATA

TECHNICAL SPECS

Chemistry: Epoxy

Color: Clear, can be used with a Ghostshield Color Additive

Finish: High-Gloss

Carrier: 100% Solids

Packaging: 3 Gallon Kit , 2 component kit

Coverage: 50-150 sq. ft. per gallon at 10-30 mils wet film thickness.

Application Method: EPDM squeegee or flat metal spring blade.

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 *Exposure Time: 72 Hours

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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APPLICATION

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 contaminants such as dirt, dust, or other foreign materials.

RECOMMENDED TOOLS:

Best applied using EPDM Squeegee. 3/8" nap shed-resistant roller is recommended if back-rolling. A paint brush may be appropriate for cutting in or small-scale applications. Spiked shoes, mechanical mixing device also recommended.

MIXING:

Combine two (2) Part A to one (1) Part B, by volume. Kits come pre-packaged 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. If applicable, pour color additive into Part A and mix for an additional one (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 minutes timeframe.

APPLICATION:

Immediately pour entire contents of mixed Epoxy Max™ 100 onto the floor in a long bead approximately 12 - 18 inches wide. Use 1/8" notched squeegee to spread material evenly at 10-30 mils to a uniform thickness.

As material is being spread, a second applicator can back-roll material using a 3/8" shed-resistant woven roller. Roll evenly across squeegee passes to minimize application lines. Do not back-roll material once Epoxy Max™ 100 begins to tack up. This can interfere with self-leveling process. Use a new mixing pail for each kit.

APPLICATION NOTES

- 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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APPLICATION

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.

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CONTACT

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WARRANTY

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For professional use only.

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