



Epoxy Primer

Product Data Sheet



PRODUCT DESCRIPTION

Epoxy Primer is a clear, single-component epoxy primer/sealer. It incorporates state of the art water-based technology to produce an extremely versatile product that penetrates and seals porous substrates. It is effective at increasing the bond of acrylic, polyurethane, butyl, and epoxy topcoats to a variety of surfaces. It will also help to "solidify" punky or chalky surfaces. **Epoxy Primer** is safe to use, has very little odor, and is easy to clean up.

Epoxy Primer is manufactured in standard Clear. Black is also available when **Epoxy Primer** is applied beneath polyurethane foam. The black surface will absorb the sun's radiant heat, enhancing the ability of the polyurethane foam to achieve its maximum yield.

Epoxy Primer may be reduced with water for increased penetration over dense substrates.

PACKAGING & SHELF LIFE

Epoxy Primer is a single-component material available in:

1-gallon (3.8 liter) buckets
5-gallon (19 liter) pails

Shelf Life: in unopened containers is 12 months from date of manufacture. Store at temperatures between 50°F and 100°F (10°C and 38°C).

BASIC USES & ADVANTAGES

Epoxy Primer is designed to penetrate and seal porous substrates and to improve the adhesion of high-performance topcoats. It develops a tenacious bond to concrete, asphalt, wood, fiberglass, steel, galvanized and aluminum surfaces. Although **Epoxy Primer** will greatly enhance the adhesion of various top coats over metal surfaces, it is not designed to add to the corrosion resistance of the system beyond what the top coat provides. **Epoxy Primer** is also effective at increasing the bond of polyurethane foam to a wide variety of substrates.

Epoxy Primer will effectively solidify punky or chalky concrete or masonry surfaces when used as a primer prior to topcoating.

Advantages:

- **Adhesion:** **Epoxy Primer** penetrates and "wets" into porous surfaces, imparting a tenacious chemical and physical bond between the substrate and subsequent topcoat. It is also effective over damp concrete or wood surfaces.
- **Nondusting:** **Epoxy Primer** penetrates deeply to eliminate concrete dusting, providing for easy cleanup and minimum maintenance.
- **Deep Penetration:** Its low viscosity allows **Epoxy Primer** to penetrate into and preserve dense surfaces such as smooth-troweled concrete floors, oriented strandboard, fiberglass, and various types of metal surfaces.
- **Anti-Spalling:** Applied to concrete decks, walkways, industrial areas, etc., **Epoxy Primer** will effectively protect against the intrusion of destructive salts, oils, solvents, and gasoline. It also prevents spalling and pitting caused by freeze/thaw cycling.

PHYSICAL PROPERTIES

EPOXY PRIMER	
Solids by Weight	10.6% (± 1) [ASTM D2369]
Solids by Volume	10.4% (± 1) [ASTM D2697]
Weight per Gallon	8.4 lb (3.8 kg) (± .2) [ASTM D1475]
Dry Time to Touch	30 minutes @ 75°F (24°C) [ASTM D1640]
VOC	<100 grams/liter

Cure Time	8 + hours @ 75°F (24°C)* Cure and recoating time will vary from 2 to 48 hours depending upon ambient conditions and the type of top coat being applied. <i>*High humidity and/or low temperature will retard cure and recoat times.</i>
Low & High Service Limits	-30°F to 150°F (-34°C to 66°C)

APPLICATION INSTRUCTIONS

Epoxy Primer may be applied by brush, roller, or spray. Airless spray is the preferred method. Any airless spray equipment capable of 1,000 psi (6,980 kpa) and 1/2 gallon per minute (1.9 l/minute) delivery can be used. A reversible, self-cleaning spray tip with an orifice size of .015" to .027" (.4 – .7 mm) and minimum 40 degree fan angle is recommended. Before spraying, flush equipment with clean water to prevent contamination. Coverage rate will vary depending upon surface porosity. One coat is usually

sufficient for sealing substrates when **Epoxy Primer** is used as a primer. When used as a sealer/finish, two coats are required to achieve a uniform sheen. Two coats may also be required when sealing lightweight concrete or other highly porous surfaces.

SUBSTRATE	COVERAGE RATE
Concrete	0.3 – 0.4 gal/100 ft ² (1.4 – 1.6 L/10 m ²)
Wood	0.3 – 0.4 gal/100 ft ² (1.4 – 1.6 L/10 m ²)

SUBSTRATE	COVERAGE RATE
Fiberglass	0.25 – 0.30 gal/100 ft ² (1.0 – 1.4 L/10 m ²)
Metal	0.25 – 0.30 gal/100 ft ² (1.0 – 1.4 L/10 m ²)

GAF Liquid-Applied

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LIMITATIONS & PRECAUTIONS

Epoxy Primer is a thin penetrating sealer. It is not designed for use as a high-build surface coating. Do not use over metal under immersion conditions.

Epoxy Primer will freeze and become unusable below 32°F (0°C). Do not ship or store unless protection from

freezing is available. Do not apply if conditions will not permit complete cure before rain, dew, or freezing temperatures occur. Do not apply in the late afternoon if moisture condensation can appear during the night. Do not apply **Epoxy Primer** at temperatures below 50°F (10°C).

SAFETY & HANDLING

Epoxy Primer may be an irritant to skin. Avoid breathing of vapor or spray mist. Approved MSHA/NIOSH chemical cartridge respirator must be worn by applicator. Avoid contact with eyes and skin. For specific information regarding safe handling of this material, please refer to OSHA guidelines and product Safety Data Sheet (SDS).

CLEAN UP

Use water and UCC to thoroughly flush the equipment. Purge the water from the system using a mild solvent, leaving the solvent in the lines until next use.