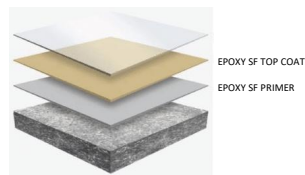


BTL EPOXY SF PRIMER

Two-Component Solvent-Free Epoxy Primer

JULY 2024
REV 03

APPLICATIONS



THE PRODUCT

BTL EPOXY SF PRIMER is a high-performance, two-component epoxy system designed for concrete and other porous substrates.

This primer provides excellent pore sealing, limits absorption, and ensures optimal adhesion for subsequent epoxy topcoats.

It is solvent-free, 100% solids, and has minimal odor with no fire hazard in the uncured state.

USES

BTL EPOXY SF PRIMER recommended uses:

- Industrial and commercial flooring systems
- Chemical and manufacturing plants
- Warehouses, workshops, and car parks
- Repair mortars, bonding agents, and anchoring systems
- Screeds and toppings over concrete, steel, or wood substrates

BENEFITS

- ✓ Excellent adhesion to concrete and cementitious surfaces
- ✓ Solvent-free, low VOC (<5 g/L)
- ✓ Cold-cure performance under variable temperatures and humidity
- ✓ Compatible with all BTL solvent-free epoxy topcoats
- ✓ Complies with environmental standards (LEED, MPI GPS 1 & GPS 2, US EPA, SCAQMD)

SPECIFICATIONS

Property	Standard	Unit	BTL CLEAR EPOXY PRIMER
Density (Base + Hardener) - Depends on hardener	ASTM D1475	kg/L	1.535 – 1.565
Solids Content (by weight)	ASTM D1644	%	100
Solids Content (by volume)	ASTM D2697	%	100
Mixing Ratio (Hardener : Base, by Volume)	-	%	1 : 4
Pot Life (at 23 °C)	ASTM D2196	min	~45
Flash Point	ASTM D93	°C	>200
Adhesion to Concrete	ASTM D4541	-	Excellent
VOC Content	ASTM D3960	g/L	<5

ADDITIONAL INFORMATION

Handling and storage

BTL EPOXY SF PRIMER is available in 1 US gallon (3.78L), and 5 US gallon (18.9L) kits. Each kit includes base and matching hardener.

Store in cool, dry conditions, away from direct sunlight, below 30 °C

Available in clear color, Smooth semi-gloss, colorless / transparent Finish, Minimal dirt retention after curing.

Installation

Surface Preparation

Ensure surfaces are solid, clean, dry, and free of oil, grease, salts, dust, and other contaminants.

Concrete: Use shot blasting or acid etching (5–10% muriatic acid), rinse thoroughly, and allow to dry.

Repair cracks, spalls, or hollow areas with suitable epoxy repair mortars before priming.

Application & Mixing

Mix base and hardener thoroughly using a low-speed mechanical mixer until uniform. Apply immediately using brush, roller, or spray. For horizontal surfaces, use a spiked roller to remove air bubbles.

Recommended DFT: 125 µm minimum.

Apply when surface temperature is at least 5 °C above the dew point. Relative humidity: 30–85%.

Drying & Recoating Times

Touch Dry: ~5 hours

Recoat: ~9-12 hours (before full cure)

Handle Dry: ~24 hours

Full Cure: ~7 days (depending on ambient conditions)

Coverage

Average Coverage Rate: 0.3–6 m²/L depending on application.

Primer / Clear Coat: 150–200 µm, 4–6 m²/L, Single coat to seal substrate before mortar or topcoat.

Self-Leveling Coating: 500–1000 µm, 1–2 m²/L, Smooth industrial floors; seamless finish.

Mortar / Screed (Filled System): 2–3 mm, 0.3–0.5 m²/L, Used with fillers/aggregates for high-strength floors.

Health & Safety

- Use protective gloves, masks, and goggles during application.
- Avoid skin and eye contact; rinse immediately with clean water if contact occurs.
- Keep containers tightly closed when not in use.
- Keep out of reach of children.
- Follow local regulations for disposal of leftover material and containers.

CERTIFICATION

BTL EPOXY SF PRIMER Complies with relevant **ASTM** and **ISO** standards for two-component epoxy primer coatings.

It Also meets the following quality and environmental certifications:

- LEED Compliant
- MPI GPS 1 & GPS 2
- US EPA VOC Standards
- SCAQMD VOC Compliance
- ISO 9001: Quality Management System

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BTL reserves the right to modify the technical data in this specification sheet, which is based on current production without prior warning.
All indicators in this specification sheet are based upon our experience and current working practices.