TECHNICAL DATA SHEET

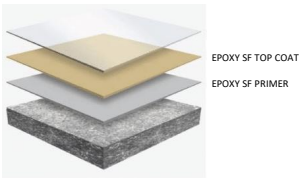
BUILDTOLAST

BTL EPOXY SF TOP COAT

Two-Component Solvent-Free Epoxy Top Coat

JULY 2024
REV 03

APPLICATIONS



THE PRODUCT

PRODUCT RANGE

- BTL EPOXY SF TOP COAT
  High-performance epoxy mortar, topping, and screed system for industrial flooring applications.
- BTL EPOXY SF PRIMER
  Solvent-free epoxy primer and tie coat for concrete and other porous surfaces.

BTL EPOXY SF TOP is 100% solids, solvent-free, two-component epoxy system designed for professional use in heavy-duty floor coatings and protective applications.

USES

BTL EPOXY SF TOP COAT 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

- ✔ High mechanical and compressive strength with excellent leveling and non-shrink properties
- ✔ Exceptional chemical resistance to acids, alkalis, oils, fuels, and detergents
- ✔ Durable and long-lasting adhesion to concrete, steel, and masonry substrates
- ✔ Cold-curing capability, performs well in low temperatures and high humidity
- ✔ 100% solids – no volatile solvents or harmful emissions
- ✔ Thermally stable, low odor, and non-flammable when cured

SPECIFICATIONS

Property	Standard	Unit	BTL EPOXY SF TOPCOAT
Density (depending on formulation)	ASTM D1475	kg/L	1.07 – 1.13
Solids Content (by weight)	ASTM D1644	%	100
Solids Content (by volume)	ASTM D2697		100
Mixing Ratio (Hardener : Base, by Volume)	-	-	1 : 4
Compressive Strength (after 10 days @ 20°C)	ASTM D695	N/mm²	~102
Flexural Strength	ASTM D790	N/mm²	~35
Elongation at Fissure	ASTM D412	%	Up to 350
Adhesion to Concrete	ASTM D4541	N/mm²	> 4
Resistance to Water Pressure	ASTM D870	-	Excellent; no visible effect under test

ADDITIONAL INFORMATION

Handling and storage

BTL EPOXY SF TOP COAT is available in 4L and 19L sets (Base + Hardener)

Store in a cool, dry, and well-ventilated area at temperatures not exceeding **30°C**.

Shelf Life: 12 months in unopened containers under proper storage conditions.

Installation

Surface Preparation

Ensure the surface is clean, dry, and free from oil, grease, salt, dust, and other contaminants.

Priming

Apply BTL CLEAR EPOXY PRIMER as a tie coat on absorbent or porous concrete surfaces.

Mixing

Combine the base and hardener components using a mechanical mixer until uniform.

Mixing Ratio (Base : Hardener): 1 : 4 (depending on system)

Application Methods

Roller, brush, trowel, or spray depending on the system.

Drying & Recoating Times

Touch Dry: ~2 hours

Handle Dry: ~24 hours

Full Cure: ~7 days (Allow sufficient curing time; full mechanical and chemical resistance develops over several days)

Coverage

- Primer / Clear Coat: 150–200 µm, 4–6 m²/L, Used as a single sealing coat over prepared concrete prior to applying mortar or topcoat systems.
- Self-Leveling Coating: 500–1000 µm, 1–2 m²/L, Ideal for smooth industrial floors, continuous and seamless finish with high mechanical resistance.

Health & Safety

- Use protective gloves, masks, and goggles during application.
- Ensure adequate ventilation in enclosed areas.
- Avoid skin and eye contact; rinse immediately with clean water if contact occurs.
- Keep away from heat and open flames during application.
- Keep out of reach of children.

CERTIFICATION

BTL EPOXY SF TOP COAT 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

PO Box 1401, Main Road, Byblos,
Lebanon

Customer Service (sales): +961 (81) 267 713 info@btlast.com

Technical Support Team: +961 (81) 305 141 technical@btlast.com