

SHIELD-TEC™ 801

Epoxy floor sealer for commercial and industrial applications

MIXING RATIO
2A : 1B
by volume

FEATURES

Pre-measured 15 L unit

Suitable for service areas exposed to high humidity

Seamless and easy to clean

Excellent impact resistance

Superior penetration

Meets CFIA requirements

Self-leveling

Provides a wet-look effect on concrete



Contact
POLYMÈRES TECHNOLOGIES
for more information:
support@polymerestechnologies.com

DESCRIPTION

The SHIELD-TEC™ 801 is a two-component, 100% solid, odorless epoxy floor sealer that provides a high level of penetration for sealing and protecting concrete floors before applying the SHIELD-TEC™ 802 F finish coating. Its finish is durable and easy to clean on concrete and other surfaces exposed to high humidity.

This sealer is ideal for applications in food processing, medical, commercial, and industrial facilities where frequent cleaning is required. It is waterproof and offers excellent abrasion and UV resistance.

Perfect for high-traffic areas.

POSSIBLE APPLICATIONS (non-exhaustive list)

- Food processing plants (production rooms, washrooms, and food preparation areas);
- Pharmaceutical plants, laboratories, hospitals, and school buildings;
- Aquatic centers and recreation facilities;
- Production areas and mechanical rooms;
- Warehouses.

INSTRUCTIONS AND PREPARATION

The following steps must be strictly followed when using SHIELD-TEC™ 801:

1. Ensure all necessary tools and materials are ready before starting to mix.
2. Thoroughly mix parts A and B for at least 10 minutes, following the instructions in the USE section.
3. Once mixing is complete, apply immediately to the surface according to the user's project requirements.

Continue reading for more details on each step.

The surface must be clean, dry, and free of any contaminants. Use a wire brush or sandpaper to remove rust before applying on metal. We recommend removing sand, dust, dirt, grease, wax, silicone, and adhesives that could affect the adhesion of SHIELD-TEC™ 801 to concrete or metal surfaces.

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INSTRUCTIONS AND PREPARATION (suite)

CONCRETE: Mechanical or chemical preparation (muriatic acid) is required. It is very important to remove existing coatings before applying this product. The minimum age of concrete surfaces before application is 28 days at 22 °C (72 °F), depending on curing and drying conditions. The moisture content of all concrete substrates must not exceed ~4-10%. This moisture level can be measured with a calibrated moisture meter.

We recommend applying SHIELD-TEC™ 801 early in the morning or late in the afternoon to prevent the concrete floor from being too hot. Do not apply on porous surfaces where water vapor transmission may occur during application.

It is preferable that the installation of this product be performed by qualified and experienced applicators. We strongly recommend validating the application by performing a test on a 12" x 12" surface before proceeding with full-scale application.

For applying SHIELD-TEC™ 801, we recommend an ambient temperature of 22 °C (72 °F), relative humidity below 70%, and both parts A/B at 22 °C (72 °F). At lower temperatures, curing time will be extended.

APPLICATION INSTRUCTIONS

Pour the contents of the Part B (small) container into the Part A (large) container. Do not mix by hand; mix mechanically using a drill with a mixer attachment. Mix thoroughly for at least 8-10 minutes, scraping the sides and bottom of the container regularly. Use a 2" metal spatula to scrape the sides and move the resin toward the center of the container.

Once the mixture is homogeneous, apply immediately to the surface using a roller or a straight/notched squeegee (coverage may vary depending on substrate porosity). Delaying application after mixing can create hazardous situations. When left in bulk in its container, the epoxy may exhibit the following dangerous behaviors:

- **Temperature increase:** The epoxy resin temperature can rise significantly, creating potential fire and burn hazards.
- **Viscosity change:** The epoxy's viscosity may change unpredictably, making it difficult to handle safely.
- **Sudden polymerization:** Under certain circumstances, leaving the epoxy resin in bulk may cause it to harden suddenly, potentially causing burns and damage.

When applied in a thick layer, SHIELD-TEC™ 801 concrete sealer may leave a glossy finish that can be slippery when wet. To prevent slips, add a non-slip aggregate (dry sand, polypropylene beads, or others) if required.

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INSTRUCTIONS AND PREPARATION (suite)

APPLICATION INSTRUCTIONS (continued)

IMPORTANT: Failure to follow the mixing process may result in a sticky finish, uncured areas, or delayed curing, depending on the situation. Concrete surface defects (cracks, holes, edges, or others) can be repaired with TECHNO FIX™ 552.

For more information about SHIELD-TEC™ 801, contact
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DEW POINT: The substrate temperature must be at least 3 °C (5 °F) above the dew point to reduce the risk of condensation, which could greatly reduce coating adhesion. Substrate temperatures should be between 10 °C (50 °F) and 30 °C (86 °F). Moisture may form when the surface temperature is low enough to cause condensation from the atmosphere.

SUBSTRATE AGE: Concrete surfaces must be at least 28 days old at 22 °C (72 °F) before applying the coating. The moisture content must not exceed 4%, measured with a concrete moisture meter.

CLEAN-UP PROCEDURE

Collect and contain spills with an absorbent material. Dispose of according to local regulations. Once cured, this product can only be removed mechanically. Clean tools and brushes using our POLY CLEANER™ product.

CONTACT INFORMATION

For any questions regarding the safe use of SHIELD-TEC™ 801 or in case of an emergency, immediately contact the appropriate emergency services. For further guidance, contact us at support@polymerestechnologies.com.

User safety is paramount. Customer understanding and cooperation in the responsible use of our products are appreciated.



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LIMITATIONS

Please note that only the applicator is responsible for determining the number of liters required to complete their project. Calculating the required volume, preparing the substrate surface, measuring the substrate moisture content, ensuring the correct mixing ratio, achieving a homogeneous mix of parts A and B, applying the coating with a roller or notched/smooth squeegee, and controlling the applied thickness are entirely the responsibility of the applicator.

THEORETICAL COVERAGE FOR 15 L UNIT

THICKNESS (PO)	SQ FT	THICKNESS (PO)	SQ FT
0,006	1063	0,070	91
0,010	636	0,080	79
0,015	424	0,090	70
0,020	318	0,100	63
0,025	254	0,110	58
0,030	212	0,125	50
0,035	182		
0,040	159		
0,045	141		
0,050	127		
0,055	116		
0,060	106		



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TYPICAL PROPERTIES (AT 22 °C/72 °F)

SOLIDS CONTENT BY VOLUME	100 %	
SOLIDS CONTENT BY WEIGHT	100 %	
COLOR	Amber	
MIXING RATIO for a pre-measured 15 L unit	2A/1B by volume	
POT LIFE for 200 g	30 minutes	
APPLICATION METHOD	Roller or brush	
NUMBER OF COATS	1 coat	
RECOMMENDED THICKNESS	0,005 – 0,008 inches	
COVERAGE	See table on the previous page	
RECOAT TIME	4 to 6 hours, up to a maximum of 24 hours	
CURING TIME	Touch dry	4 à 6 hours
	Light traffic	6-8 hours
	Full cure	7 days
CLEAN-UP SOLUTION	POLY CLEANER™	

PHYSICAL PROPERTIES

(SOLID STATE AFTER 7 DAYS AT 22 °C / 72 °F)

TESTS	METHOD	RESULTS	
HARDNESS	ASTM D 785 65	Shore D	81
COMPRESSIVE STRENGTH	ASTM D 695	MPa	104
TENSILE STRENGTH	ASTM D 638	MPa	30,5
ELONGATION PERCENTAGE	ASTM D 638	%	6,4
ABRASION RESISTANCE	TABER CS-17-1000 GR	0,059	

PRECAUTIONS

- FOR INDUSTRIAL USE ONLY.
- Consult the Safety Data Sheet (SDS) before use.
- Handle this product following standard safety rules and measures.
- Ensure proper ventilation.
- Wear gloves, safety goggles, and protective clothing.
- Do not use Part A without Part B and vice versa. Mix Parts A and B thoroughly and separately before use.
- Once the container is opened, POLYMÈRES TECHNOLOGIES no longer has any control or responsibility for this product.
- The product's shelf life in unopened original containers is one (1) year from the date of purchase, under recommended storage conditions.
- Protect from freezing.

For information and guidance on safe handling, storage, and disposal of chemicals, users must refer to the most recent Safety Data Sheet. This sheet contains physical, ecological, toxicological, and other safety-related data.

All information in this technical data sheet is based on laboratory testing.

It is recommended to follow provincial and federal safety regulations. In case of contact with eyes, rinse thoroughly with water and seek medical attention immediately. In case of contact with skin, wash thoroughly with water and soap. Keep out of reach of children.

DISCLAIMER OF LIABILITY

The customer assumes all risks and responsibilities for the results obtained from the use of any POLYMÈRES TECHNOLOGIES product, including, without limitation, the use of the CHILL EPOXY™ product line, as well as the use of any process, whether in terms of overall effectiveness, success, or failure, regardless of any oral or written statements provided through technical advice or otherwise, related to the use of any POLYMÈRES TECHNOLOGIES product.

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