

# SHIELD-TEC™ 802 F

Epoxy floor coating for  
commercial and industrial  
applications

MIXING RATIO  
**2A : 1B**  
by volume

## FEATURES

Pre-measured 15 L unit

Suitable for areas exposed to  
high humidity

Seamless and easy to clean

Excellent impact resistance

Self-leveling

Meets CFIA requirements

Antibacterial version available



Contact  
POLYMÈRES TECHNOLOGIES  
for more information:  
[support@polymerestechnologies.com](mailto:support@polymerestechnologies.com)

## DESCRIPTION

SHIELD-TEC™ 802 F is a two-component, 100% solids, low-odor epoxy floor coating that provides a colored, glossy finish. Its finish is durable and easy to clean on concrete and other surfaces subject to high moisture levels.

This coating is ideal for applications in food processing plants, medical facilities, commercial, and industrial environments where frequent cleaning is required. It is waterproof and offers good resistance to chemicals, abrasion, and ultraviolet rays. Finally, in addition to its excellent hiding power, its recoat time allows for quick return to service. Ideal for agricultural, industrial, commercial, and residential buildings.

### POSSIBLE APPLICATIONS (non-exhaustive list)

- Agricultural and commercial buildings;
- Municipal buildings (pumping stations, arenas, municipal garages);
- Hospitals;
- Schools and office buildings;
- Nautical centers;
- Industrial production areas, mechanical rooms, and warehouses;
- Recreation centers.

Due to its low viscosity, SHIELD-TEC™ 802 F is self-leveling and can be applied using a smooth or notched squeegee, or with a 6 to 10 mm roller.

## INSTRUCTIONS AND PREPARATION

The following steps must be strictly followed when using SHIELD-TEC™ 802 F:

1. Ensure that all necessary tools and materials are ready before starting the mixing process.
2. Thoroughly mix Parts A and B for at least 8-10 minutes, following the instructions in the DIRECTIONS FOR USE section.
3. Once mixing is complete, immediately pour onto the floor surface as required for the user's project.

*Continue reading for more details on each step.*

The surface must be clean, dry, and free of any contaminants. We recommend removing sand, dust, dirt, grease, wax, silicone, and adhesive that could affect the adhesion of SHIELD-TEC™ 802 F to the concrete surface.

*Following on the next page.*



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## INSTRUCTIONS AND PREPARATION (continued)

**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, depending on curing and drying conditions. The moisture content of all concrete substrates must not exceed -4%. This moisture content can be measured with a calibrated moisture meter.

We recommend applying SHIELD-TEC™ 802 F early in the morning or late in the afternoon so that the concrete floor is not too hot. Do not apply on porous surfaces where water vapor transmission could occur during application. For porous surfaces, using the SHIELD-TEC™ 801 epoxy sealer is appropriate to prevent potential bubbling.

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

For applying SHIELD-TEC™ 802 F, we recommend an ambient temperature of 22 °C (72 °F), relative humidity below 70%, and both Part A and Part B at 22 °C (72 °F). Lower temperatures will prolong the curing time.

### APPLICATION METHOD

Pour the contents of the Part B (small) container into the Part A (large) container. Do not mix by hand; use a mechanical mixer with a drill-mounted mixing paddle. Mix thoroughly for at least 10 minutes, regularly scraping the sides and bottom of the container. 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 floor surface using a roller or straight/notched squeegee to spread the product. Dangerous situations may occur if application is delayed after mixing. When left in mass in its container, the epoxy may exhibit the following hazardous behaviors:

- **Temperature rise:** Epoxy temperature can increase significantly, creating potential fire and burn hazards.
- **Viscosity change:** Epoxy viscosity can change unpredictably, making safe handling difficult.
- **Sudden polymerization:** Under certain circumstances, leaving epoxy in mass can cause it to cure abruptly, potentially causing burns and damage.

**IMPORTANT :** Failure to follow the mixing process may result in a tacky finish, uncured areas, or a slowed curing process, as applicable. Concrete wall defects (cracks, holes, edges, or other imperfections) can be repaired using TECHNO FIX™ 552.

*Following on the next page.*



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## INSTRUCTIONS AND PREPARATION (continued)

**DEW POINT:** It is imperative that the substrate temperature 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 for condensation to occur 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.

For more information on the chemical resistance of SHIELD-TEC™ 802 F, contact [support@polymerestechnologies.com](mailto:support@polymerestechnologies.com).

### CLEANING PROCEDURE

Collect and contain spills using 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™ 802 F, or in case of emergency, immediately contact the appropriate emergency services. For further guidance, contact us at [support@polymerestechnologies.com](mailto:support@polymerestechnologies.com).

User safety is paramount. We appreciate the customer's understanding and cooperation in the responsible use of our products

## LIMITATIONS

Please note that only the applicator is responsible for determining the number of liters required to complete the project. Calculating the required volume, preparing the substrate surface, measuring the substrate's 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 remain the sole responsibility of the applicator.



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## TECHNICAL DATA SHEET

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### THEORETICAL COVERAGE FOR THE 15 L UNIT

THICKNESS (IN)	0,006	0,010	0,015	0,020	0,025	0,030
FT <sup>2</sup>	1063	636	424	318	254	212
THICKNESS (IN)	0,035	0,040	0,045	0,050	0,055	0,060
FT <sup>2</sup>	182	159	141	127	116	106
THICKNESS (IN)	0,070	0,080	0,090	0,100	0,110	0,125
FT <sup>2</sup>	91	79	70	63	58	50

### TYPICAL PROPERTIES (AT 22 °C / 72 °F)

SOLIDS CONTENT BY VOLUME	100 %	
SOLIDS CONTENT BY WEIGHT	100 %	
SPECIFIC DENSITY (g/cm <sup>3</sup> )	PART A : 1.176 PART B : 0.996 A/B : 1.116	
COLOR	Colored	
MIXING RATIO for a pre-measured 15 L unit	2A/1B by volume	
POT LIFE for 200 g	60 minutes at 22 ° C	
RECOMMENDED PRIMER	SHIELD-TEC™ 801	
APPLICATION METHOD	Roller, brush, or straight/notched squeegee	
NUMBER OF COATS	2 coats	
RECOMMENDED THICKNESS	Finch coat: 10 to 20 mils	
TACK-FREE TIME	55 minutes	
TIME BEFORE RECOATING	8 tp 12 hours, maximum of 24 hour	
CURE TIME	Touch dry	6 à 10 hours
	Light traffic	24 hours
	Full cure	7 days
CLEANING 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	84
COMPRESSIVE STRENGTH	ASTM D 695	MPa	105
TENSILE STRENGTH	ASTM D638	MPa	33,5
ELONGATION PERCENTAGE	ASTM D638	%	5,4
ABRASION RESISTANCE	TABER CS-17-1000 GR	0,060	



**POLYMÈRES**  
technologies

## PRECAUTIONS

- FOR INDUSTRIAL USE ONLY.
- Consult the safety data sheet before use.
- Handle this product according to standard safety rules and precautions.
- Ensure adequate 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 separately before use.
- Once the container is opened, POLYMÈRES TECHNOLOGIES has no further control or responsibility over 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 should refer to the most recent Safety Data Sheet (SDS). The SDS contains physical, ecological, toxicological, and other safety-related data.

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, and regardless of any oral or written statements, including technical advice or otherwise, related to the use of any POLYMÈRES TECHNOLOGIES product.

[sales@polymerestechologies.com](mailto:sales@polymerestechologies.com)

6330 Laurier Blvd. O, Saint-Hyacinthe, QC J2S 9A7, Canada

+1 450 250-3058