

SHIELD-TEC™ 802 W

Epoxy wall coating
for commercial and
industrial
applications

MIXING RATIO
2A : 1B
by volume

CHARACTERISTICS

Pre-measured kit of 15 L

Suitable for service 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

DESCRIPTION

SHIELD-TEC™ 802 W is a two-part, 100% solid, low-odor epoxy wall coating that provides a colorful, glossy, lightly textured finish. Its finish is durable and easy to clean on interior surfaces such as concrete, wood, masonry, and drywall.

This highly thixotropic coating is ideal for wall applications in food, pharmaceutical and industrial plants. It is waterproof and has good resistance to chemicals, abrasion and ultraviolet rays. It can also be used in conjunction with fiberglass fabrics. Finally, in addition to its great hiding power, its recovery time allows rapid return to service.

POSSIBLE APPLICATIONS (non-exhaustive list)

- Production areas;
- Mechanical rooms;
- Warehouses;
- Leisure centers.

INSTRUCTIONS & PREPARATION

The following steps must be scrupulously followed when using SHIELD-TEC™ 802 W :

1. Make sure all necessary tools and materials are ready before you begin mixing.
2. Mix parts A and B thoroughly for at least 10 minutes following the instructions in the DIRECTIONS FOR USE section.
3. Once the mixture is complete, apply immediately to the surface according to the needs of 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 glue that could affect the adhesion of SHIELD-TEC™ 802 W to the concrete surface.

CONCRETE: Mechanical or chemical preparation (muriatic acid). 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 should not exceed ~4%. This moisture content can be measured with a calibrated moisture meter.

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INSTRUCTIONS & PREPARATION (continued)

We recommend applying SHIELD-TEC™ 802 W early in the morning or late in the afternoon so that the concrete substrate is not too hot. Do not apply on porous surfaces where there would be transmission of water vapor during application.

The installation of this product should be done by qualified and experienced applicators. **We strongly recommend validating the application by performing a test on a 12" x 12" surface before launching production.**

To apply SHIELD-TEC™ 802 W, 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, the curing time will be extended.

DIRECTIONS FOR USE

Pour the contents of the Part B (small) container into the Part A (large) container. Do not mix by hand. Mechanically mix the product using a drill fitted with an appropriate mixing attachment. Mix thoroughly for a minimum of 10 minutes, ensuring the sides and bottom of the container are scraped regularly during the mixing process. Use a 2" metal spatula to scrape the walls and bottom of the container and move the material toward the center to ensure a fully homogeneous mixture. Once the product is properly mixed, immediately pour the material into a paint tray/pan and apply onto the surface using a roller, straight squeegee, or notched squeegee.

IMPORTANT — MIX SMALL BATCHES ONLY

When using this product, it is strongly recommended to mix smaller quantities at a time rather than large batches. Epoxy resin left in mass inside a mixing container or paint tray can generate a rapid exothermic reaction (heat buildup), which may significantly reduce working time and create hazardous conditions.

- Do not leave the mixed resin sitting in the paint tray/pan for more than approximately 30 minutes, as the product may begin to overheat, increase in viscosity, and cure rapidly.
- For optimal safety and application performance, it is recommended to:
 - Mix smaller batches only
 - Immediately pour the product into a paint tray after mixing
 - Apply the material directly onto the wall/surface without delay
 - Remix fresh batches as needed during the application process instead of preparing one large batch at once

Failure to follow these recommendations may result in the following hazardous behaviors:

Excessive heat generation: The epoxy temperature may increase significantly, creating potential burn or fire hazards.

Rapid viscosity increase: The resin may thicken unpredictably, making application difficult or impossible.

Abrupt curing reaction: Large masses of epoxy can cure suddenly and aggressively, potentially causing smoke, burns, damage to tools/containers, or product failure.

IMPORTANT: Failure to follow the mixing process may result in a sticky finish, uncured areas and a slowdown in the curing process, as applicable. Defects in concrete walls (cracks, holes, edges or others) can be rectified with CRACK FILLER™ EP 550.

For more information on the chemical resistance of SHIELD-TEC™ 802 W, contact support@polymerestechologies.com.

of condensation which could greatly reduce the adhesion of the coating. The temperature of the substrates should be between 10°C (50°F) and 30°C (86°F). Moisture can form when the surface temperature is low enough to form condensation from the atmosphere.



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DEW POINT: It is imperative that the substrate temperature be at least 3°C (5°F) above the dew point in order to reduce the risk

of condensation which could greatly reduce the adhesion of the coating. The temperature of the substrates should be between 10°C (50°F) and 30°C (86°F). Moisture can form when the surface temperature is low enough to form condensation from the atmosphere.

INSTRUCTIONS & PREPARATION (continued)

AGE OF SUBSTRATES: Concrete surfaces must have a minimum of 28 days at 22°C (72°F) before applying the coating. The humidity percentage must not be higher than 4%, the latter having to be measured with a concrete humidity meter.

CLEANING PROCEDURE

Collect and contain spills with absorbent material. Dispose of said spills following current regulations. Once hardened, this product can only be removed mechanically. Clean tools and brushes using our POLY CLEANER™ product.

COORDINATES

For any inquiries regarding the safe use of SHIELD-TEC™ 802 W, or in the event of an emergency, contact the appropriate emergency services immediately. For further advice, contact us at support@polymerestechologies.com.

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

LIMITATIONS

Please note that only the applicator is responsible for determining the number of liters required to carry out their project. Calculation of the required liters, surface preparation of the substrate, calculation of the humidity percentage of the substrate, accuracy of the mixing ratio, homogeneous mixing of parts A and B, application of the coating using the roller, a serrated squeegee or not as well as the thickness applied remain the entire responsibility of the applicator.



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THEORETICAL COVERAGE OF THE 15L FORMAT

THICKNESS (IN)	0.006	0.010	0.015	0.020	0.025	0.030
FT ²	1063	636	424	318	254	212
THICKNESS (IN)	0.035	0.040	0.045	0.050	0.055	0.060
FT ²	182	159	141	127	116	106
THICKNESS (IN)	0.070	0.080	0.090	0.100	0.110	0.125
FT ²	91	79	70	63	58	50

TYPICAL PROPERTIES (AT 22 °C/72 °F)

STRONG CONTENT BY VOLUME	100 %	
STRONG CONTENT BY WEIGHT	100 %	
COLOR	Colored	
MIXING RATIO for a 15L pre-measured unit	2A/1B by volume	
POT LIFE for 200 g	40 minutes	
RECOMMENDED PRIMER	SHIELD-TEC™ 801	
APPLICATION METHOD	Roller, brush or straight/serrated squeegee	
NUMBER OF LAYERS	2 coats of 12 to 15 inch mils	
RECOMMENDED THICKNESS	Topcoat: 15 to 25 inch mils	
COVERAGE	See table above	
TIME BEFORE REAPPLICATION	8 to 12 hours, maximum of 24 hours	
CURING TIME	Dry to the touch	6 to 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	85
COMPRESSIVE STRENGTH	ASTM D 695	MPa	103
TENSILE STRENGTH	ASTM D638	MPa	31.5
ELONGATION PERCENTAGE	ASTM D638	%	6.4
ABRASION RESISTANCE	TABER CS-17-1000 GR	0.061	



PRECAUTIONS

- FOR INDUSTRIAL USE ONLY.
- Consult material safety data sheet prior to use.
- Normal health and safety measures should be observed when handling this product.
- Ensure good ventilation.
- Wear gloves, safety glasses, and protective clothing.
- Do not use part A without its part B, and vice versa. Shake well parts A and B separately before use.
- Once the container is opened, POLYMÈRES TECHNOLOGIES can no longer be held responsible for this product.
- Shelf life of this product in original containers is one (1) year from the date of purchase, under recommended storage conditions.
- Keep from freezing.

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

It is recommended to follow provincial and federal safety regulations. In case of eye contact, rinse well with water. In case of skin contact, rinse with soap and water. Keep away from children.

ASSUMPTION OF RISK

The customer assumes all risk and liability for the results obtained by the use of any POLYMÈRES TECHNOLOGIES product, including, without limiting the generality of the foregoing, the use of the CHILL EPOXY™ line of products, and the use of any process, whether in terms of general effectiveness, success, or failure, and regardless of any oral or written statement made by way of technical advice or otherwise, related to the use of any POLYMÈRES TECHNOLOGIES product.

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