SHIELD-TEC™ 804 C

ANTIMICROBIAL EPOXY COATING FOR CEILINGS AND WALLS

MIXING RATIO
2A : 1B
by volume

CHARACTERISTICS

- Pre-measured units of 6 and 15 L (other sizes on request)
- 100% solid and odorless
- Good hiding power
- Easy to sand
- Thixotropic
- Meets CFIA requirements
- Good chemical resistance
- Quick return to service
- Increases adhesion power and acts as an adhesion promoter
- Perfectly fills porosities and allows a uniform surface
- Eliminates the spread of mold and bacteria

SANS COV / VOC FREE 0%

PRODUIT ANTIMICROBIEN
ANTIMICROBIAL PRODUCT

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

DESCRIPTION

SHIELD-TEC™ 804 C is a 100% solid, VOC-free, antimicrobial epoxy coating for ceilings and walls. With a good consistency, it is formulated for the protection of surfaces exposed to aggressive environments. It will fill porosities, small holes, and small cracks and will allow a slightly textured finish on walls and ceilings. It adheres perfectly to different surfaces such as concrete, wood, plastic, and different metal surfaces such as insulation panels found in food, medical, and industrial environments. Coverage will depend on the porosity of the wall and ceiling. Meets CFIA requirements and is anti-allergenic.

Ideal for clean rooms, food production rooms, laboratories, hospitals and refrigerators to meet the strictest standards of sterile environments.

POSSIBLE SECTORS OF APPLICATION (non-exhaustive list)

- Agri-food;
- Medical and pharmaceutical;
- Municipal institutions and buildings;
- Warehouses;
- Poultry houses, piggeries, farms, and dairy farms;
- Maple sugar camps and silos;
- Retention basins, changing rooms, and showers.

INSTRUCTIONS & PREPARATION

The following steps must be scrupulously followed when using SHIELD-TEC™ 804 C :

1. Make sure all necessary tools and materials are ready before you start 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.

Pour part B (small container) into Part A (large container) and mix thoroughly using a jiffy mixer until completely smooth. Scrape the sides and bottom of the container thoroughly. Before applying, ensure that surfaces, panels or components are free of contaminants.

Continued on next page

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INSTRUCTIONS & PREPARATION (continued)

DIRECTIONS FOR USE

It is recommended to use this product within 12 months.

When applied, the pot life and cure time before sanding will vary depending on the ambient temperature. The exotherm of the system will vary depending on the thickness being applied and the ambient temperature of the work site. Since this product only has a pot life of 50 minutes at 22°C (72°F), care must be taken not to mix more material than can be applied.

Once the mixture is homogeneous, immediately apply to the floor surface and use a roller or straight/notched squeegee to spread the product. **Hazardous situations may be incurred if application of the product after mixing is delayed.** When left en masse in its container, epoxy can exhibit the following dangerous behaviors:

- **Increased temperature:** The temperature of the epoxy resin can increase significantly, creating potential fire and burn hazards.
- **Viscosity change:** The viscosity of epoxy can change unpredictably, making it difficult to handle safely.
- **Abrupt curing:** Under certain circumstances, leaving epoxy resin in bulk can cause it to harden abruptly, potentially causing burns and damage.

IMPORTANT: Failure to follow the mixing process may result in a sticky finish, uncured areas and a slowdown in the curing process, as applicable.

CLEANING & STORAGE

Store SHIELD-TEC™ 804 C on a pallet or rack at 22°C (72°F) with a relative humidity of less than 60%. A colder environment will increase the viscosity of each Part A/B and a warmer environment will decrease it. Uncured material can be easily cleaned using our POLY CLEANER™ resin cleaner.

CONTACT INFO

For any inquiries regarding the safe use of SHIELD-TEC™ 804 C, or in the event of an emergency, contact the appropriate emergency services immediately. For further advice, contact us at support@polymerestechnologies.com.

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

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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.

TYPICAL PROPERTIES (AT 22 °C/72 °F)	PART A	PART B	MIXTURE
CONSISTENCY	Slight paste		
DENSITY (g/cm^3)	1.041	0.906	0.0996
MIXING RATIO BY VOLUME	2	1	2/1
MIXING RATIO BY WEIGHT	100	38	100/38
COLOR	White		
POT LIFE for 200 cc	50 minutes		
RECOMMENDED APPLICATION THICKNESS (vertical wall or ceiling)	Primer coat (0.010 in) Final coat (0.020 – 0.025 in) (Depending on porosity of substrate)		
RECOVERY TIME	< 12 to 16 hours depending on thickness applied		
DRYING TIME	Dry to the touch ~8 to 12 hours		
FULL CURE	~2 to 3 days depending on thickness applied		

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

TESTS	METHOD	RESULTS	
HARDNESS	ASTM D 2240	Shore D	81
COMPRESSIVE STRENGTH	ASTM D 695	MPa	48.94
ELONGATION	ASTM D 638 Type 4	%	4.55

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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.

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