

NOVO SHIELD™ 801

Novolac epoxy floor
sealer 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
and high resistance to
solvents, acids and alkalis

Superior penetrating power

Meets CFIA requirements

Self-leveling

Allows rapid return to service
(4-6 hours) and facilitates
cleaning



For more information, contact :
support@polymerestechologies.com

DESCRIPTION

NOVOSHIELD™ 801 is a two-component, 100% solid, low odor, high chemical resistance Novolac epoxy floor sealer that provides a high level of penetration for sealing and protecting concrete floors exposed to an aggressive chemical environment. This sealer is applied before installing the NOVOSHIELD™ 802 F finishing coating. Its finish is durable and easy to clean on concrete and other surfaces subject to high humidity.

This sealant is ideal for applications in food, medical, commercial and industrial plants where frequent cleanings are required and the environment is composed of harsh chemicals. It is waterproof and has excellent resistance to abrasion and UV rays.

Superior adhesion to concrete and metals.

POSSIBLE APPLICATIONS (non-exhaustive list)

- Food factories (production rooms, washing rooms, and food preparation rooms);
- Pharmaceutical factories, laboratories, hospitals and school buildings;
- Nautical centers and leisure centers;
- Production areas and mechanical rooms;
- Warehouses.

INSTRUCTIONS & PREPARATION

The following steps must be scrupulously followed when using NOVOSHIELD™ 801 :

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. Use a wire brush or sandpaper to remove rust before applying to metal. We recommend removing sand, dust, dirt, grease, wax, silicone and glue which could affect the adhesion of NOVOSHIELD™ 801 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.

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INSTRUCTIONS & PREPARATION (continued)

CONCRETE PREPARATION (continued)

The moisture content of all concrete substrates should not exceed -4%. This moisture content can be measured with a calibrated moisture meter.

We recommend applying NOVOSHIELD™ 801 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 there would be transmission of water vapor during application.

It is preferable that the installation of this product 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 NOVOSHIELD™ 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, 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, but mechanically with a drill fitted with a mixer. Mix thoroughly for at least 8-10 minutes, making sure to scrape 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, immediately apply to the surface and use a roller or straight/serrated squeegee to spread the product (coverage may vary depending on the porosity of the substrate). **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.

NOVOSHIELD™ 801 concrete sealer, if applied in a thick layer, can leave a glossy finish which can be slippery when wet. To prevent slipping, add an anti-slip aggregate (dry sand, polypropylene beads, or others) if required.

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 NOVOSHIELD™ 801, contact us at the following address:
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INSTRUCTIONS & PREPARATION (continued)

DIRECTIONS FOR USE (continued)

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.

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™ 801, 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
PI ²	182	159	141	127	116	106
THICKNESS (IN)	0.070	0.080	0.090	0.100	0.110	0.125
PI 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	Amber	
MIXING RATIO for a 15L pre-measured unit	2A/1B by volume	
POT LIFE for 200 g	30 minutes	
APPLICATION METHOD	Roller or brush	
NUMBER OF LAYERS	1 layer	
RECOMMENDED THICKNESS	0.005 – 0.008 inches	
COVERAGE	See table above	
TIME BEFORE REAPPLICATION	4 to 6 hours, maximum of 24 hours	
CURING TIME	Dry to the touch	4 to 6 hours
	Light traffic	6-8 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	83
COMPRESSIVE STRENGTH	ASTM D 695	MPa	109
TENSILE STRENGTH	ASTM D 638	MPa	33.5
ELONGATION PERCENTAGE	ASTM D 638	%	4.4
ABRASION RESISTANCE	TABER CS-17-1000 GR	0.052	



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.

All information contained in this data sheet is based on laboratory tests.

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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