

### Product Overview

It is a two-component, epoxy-based, solvent-free primer and impregnation material with low viscosity.

### Application Domains

- In systems utilizing epoxy and polyurethane floor coatings,
- In insulation systems, including polyurethane and polyurea,
- By incorporating specialized silica sand, it serves the purposes of repairing, filling, and chamfering the substrate.

### Technical Specifications

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| Colour                          | Clear, uncolored                              |
| Intensity                       | $1.05 \pm 0.05 \text{ gr/cm}^3$ (A+B / 23 °C) |
| Solids by Volume (A and B)      | %100 (A+B)                                    |
| Blending Proportion             | Weight: 2.5A/1B                               |
| Mixture Shelf Life (above 10°C) | 80 minutes                                    |
| Mixture Shelf Life (at +25°C)   | 30 - 35 minutes                               |
| Interfloor Waiting Time         | 8-12 hours at 20°C                            |
| Adhesion to Concrete            | 2.2 – 2.4 N/mm <sup>2</sup>                   |
| Opening to Moderate Traffic     | 12 – 24 hours / at 20°C                       |
| Complete Recovery               | 7 days at 20 degrees Celsius                  |
| Complete Recovery               | +8°C – +35°C                                  |
| Surface Temperature             | +8°C – +35°C                                  |

The information presented in this technical data sheet is derived from experimental results. The responsibility for the proper application of our original product rests with the user. Our company is solely accountable for the product's quality. This data sheet supersedes the information provided in the previous version. Our company reserves the right to amend any information contained within this data sheet.

### Advantages

- It serves as a primer to prepare the surface and enhance bonding properties beneath epoxy and polyurethane coatings.
- Due to its low viscosity, it effectively penetrates concrete.
- It offers exceptional adhesion to concrete, cement, and mineral-based surfaces.
- It can be effortlessly applied using a roller or brush.
- It possesses significant mechanical strength and outstanding chemical resistance to acidic solutions, alkalis, oils, greases, and similar substances.
- It can be utilized safely in environments where hygiene is essential.
- It enhances the durability of both old and new flooring, mitigates dust accumulation, and serves to repair surface damage.

### Surface Preparation

Mechanical surface preparation (such as blasttrack and rotatiger) is essential. The resulting dust layer must be removed using industrial vacuum cleaners, ensuring that the surface to be treated is sound, dry, and clean. It is imperative that the surface is devoid of dust, oil, paraffin, bitumen, and any particles that could compromise adhesion. Additionally, all loose mortar, plaster, and similar materials must be eliminated from the surface. The concrete quality should meet a minimum standard of C20/25 and be at least 28 days old. The tensile strength of the reinforced concrete surface should be 1.5 N/mm<sup>2</sup>, with a moisture content of 4% and a surface temperature of +8 °C. The success of the application is contingent upon proper surface preparation and the correct utilization of the material. Abrasion and roughening should be conducted using a method appropriate for the surface condition. The surface must be thoroughly cleaned with an industrial vacuum cleaner and prepared for application.



### Mixture

In two-component packages, the mixture is calibrated according to the specified mixing ratio (Component A: resin, Component B: hardener). The ready-to-use material is achieved by thoroughly mechanically mixing these two components. The entire quantity of component B is added to component A simultaneously, and mixing should occur at a low speed (300-400 rpm) using an appropriate attachment until a homogeneous mixture is achieved. To ensure uniform distribution of the hardener, mixing should be conducted near the edges of the container and from the bottom of the package. The two components must be thoroughly combined. It is advisable to transfer the mixture to a clean container and mix again for 3-4 minutes. Aggregates can be incorporated into CLASS EPX-110 on-site, and this should be performed within the prepared homogeneous resin mixture.



### Application Details

It is applied using a roller or notched trowel. The prepared mixture is uniformly applied to the pre-treated surface utilizing the selected method. CLASS EPX-110 is applied in one or two coats until the surface is saturated and a layer is established. If matte spots emerge, an additional coat is required. The subsequent coat should be applied before the previous one begins to dry. The number of coats varies based on the absorbency of the surface. If a textured finish is desired, while the applied material remains wet, specially prepared silica sand is sprinkled to cover the entire area. Once the material has fully dried, any excess sand is removed with an industrial vacuum cleaner.

CLASS EPX-110 can be uniformly applied to the surface using a trowel or a short-haired roller, while managing material consumption.

- The material must be safeguarded against water, rain, external influences, and mechanical stress until it has fully cured.
- It is important to acknowledge that waiting times may be reduced during warm weather and extended in cold weather.



### Consumption

Depending on the quality of the concrete utilized, theoretical values of 0.300 kg/m<sup>2</sup> to 0.500 kg/m<sup>2</sup> are advised.

The porosity and absorbency of the substrate may lead to increased consumption. It is advisable to perform a test on the substrate to monitor consumption.



### PACKAGING

21 kg (A: 15 + B: 6) arranged in tin buckets.



### Shelf life

It must be safeguarded against unfavorable weather conditions. It should be kept in a dry, cool, and sealed environment (between +10 °C and +25 °C). Once opened and mixed, the product should be consumed promptly. In its unopened packaging, it has a shelf life of 12 months when stored in a dry location at a minimum temperature of +5 °C.



### Attention

- In applications conducted in enclosed spaces, the environment must be adequately ventilated.
- In cold weather, packaging should be maintained at a minimum temperature of +15°C for no less than 24 hours before application.
- Following application, the surface must be safeguarded against water, rain, dew, snow, hail, frost, and comparable weather conditions until it is entirely dry.
- Avoid using open flames and refrain from smoking during application.
- Don appropriate gloves, goggles, and protective attire.
- In the event of skin contact, cleanse thoroughly with soap and ample water.
- Do not ingest, do not utilize empty packaging for food storage, and do not dispose of in fire.
- For professional use exclusively. Keep out of children's reach.