

Product Overview

It is a two-component, waterborne epoxy primer designed for slightly damp or dry mineral-based and concrete surfaces.

Application Domains

- For preparing damp or freshly poured concrete surfaces prior to waterproofing applications,
- For priming absorbent surfaces such as cement and epoxy-based screeds, plasters, glossy finishes, and exposed concrete,
- For priming various non-absorbent surfaces, including glass, wood, steel, and aged ceramics.
- As a preliminary measure in environments where low VOC levels are essential, such as hospitals, pharmaceutical facilities, and food processing establishments.
- As a preparatory step prior to the application of new coatings over existing epoxy and polyurethane floor finishes.
- As a preliminary step before applying new coatings to recently installed surfaces that have surpassed the curing period,
- It serves as a protective coating for concrete and plaster surfaces.

Technical Specifications

Chemical Composition	Waterborne epoxy	
Blending Proportion	Weight: 3A/1B	
Solid Substance	39 ± 2% (W/W)	
Mixture Density (R and S)	0,95 ± 0,10 kg/l	
Shore A Hardness (R and S)	75 ± 4 (7 days)	
Adhesion Strength (R+S)	≥ 3 N/mm ²	
Taber Wear (R+S)	< 3000 mg	
Chemical Resistance	It exhibits resistance to numerous chemicals. Kindly consult your technical sales representative for comprehensive information.	
Thermal Resistance	*Effect	Dry Temperature (°C)
	Continually	-30
	Continually	50
	Short-Term*	90
The aforementioned thermal resistance temperature was evaluated in the absence of continuous chemical or mechanical exposure.		

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 can be effortlessly applied using a roller or brush.
- It possesses a low VOG value.
- It is applicable to surfaces that are slightly damp.
- It is devoid of odor and suitable for indoor use.
- It is ecologically sustainable.
- The diluent is purified water.

Surface Preparation

Mechanical surface preparation (such as blast track, rotatiger, etc.) is essential. The surface may be damp; however, any excess water must be eliminated. Following surface preparation, the resultant dust layer should be removed using industrial vacuum cleaners. The surface designated for application must be sound, dry, and clean, devoid of all dust, oil, paraffin, bitumen, and any particles that could impair adhesion. Additionally, all loose mortar, plaster, and similar materials must be eliminated from the surface. The concrete quality should be no less than C20/25 and at least 28 days old. The tensile strength of the reinforced concrete surface should be 1.5 N/mm², with a moisture content of 6% and a surface temperature of +8 °C. The success of the application hinges on proper surface preparation and the correct utilization of the material. Depending on the surface condition, abrasion and roughening are conducted using the selected method. The surface is thoroughly dusted 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 the mixture should be stirred at a low speed (300–400 rpm) using an appropriate attachment until it reaches a homogeneous consistency. To guarantee uniform distribution of the hardener, mixing should occur near the edges of the container and from the bottom of the package throughout.



Application Details

CLASS EPX-140 can be diluted by gradually incorporating clean water at a ratio of 5% to 20%, contingent upon ambient conditions and the application surface. It can be applied using a roller, brush, or airless spray method. The prepared mixture should be uniformly applied to the prepped surface utilizing the selected method. CLASS EPX-140 is typically applied in one or two coats until the surface is saturated and a layer is established. To ensure complete coverage, the surface must be thoroughly brushed with a roller. The subsequent coat should be applied before the preceding one begins to dry. The number of coats required varies based on the absorbency of the surface.

- The material must be safeguarded against water, rain, external influences, and mechanical stress until it has fully cured.
- Epoxy and polyurethane topcoats or insulation materials should be applied 24 hours following the application of the primer.
- 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 0.150 kg/m² to 0.200 kg/m² 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

20 kg (A: 15 + B: 5) 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.