

Technical Data Sheet



AB-ZEROPOX® 878

2-C-EP-sealer / coating, water-based



Description:

2-component epoxy sealer / coating, coloured
very low emission

Characteristics:

- slight odour
- economical
- silk gloss finish
- permeable to water vapour diffusion
- abrasion resistant
- inert and harmless once cured

Application:

AB-ZEROPOX 878 is a very low emission and economical coating to protect floors and walls. As a professional sealer, **AB-ZEROPOX 878** provides very good adhesion to a variety of substrates e.g. concrete, cement screed, industrial asphalt, timber, magnesia, anhydrite / gypsum and existing, worn coatings. When using **AB-ZEROPOX 878** in confined areas ensure that there is adequate ventilation. The containing water must be provided every opportunity to evaporate / dissipate. Insufficient ventilation may have an affect on the curing.

N/B: To achieve the viscosity required for the application a maximum 5 % of potable water can be added whilst mixing constantly!

Consumption:

approx. 0.2 kg/m² per coat, we recommend 2 - 3 coats (on absorbent surfaces like concrete).

Resistant to:

- saline solutions
- diluted acids and alkalis
- wet temperature max. 40°C
- solvents (please consult us)
- lubricants and fuels
- dry temperature short-term 60°C

Technical Data:

Mixing ratio A : B	100 : 500 by weight (1 : 5)
Density(23°C)	approx. 1.40 g/cm ³
Volume solids	approx. 60 %
Viscosity (23°C)	approx. 1200 mPa·s ± 300

Details for application:

Pot life (12°C / 23°C / 30°C)	approx. 50 minutes / 40 minutes / 25 minutes
Substrate temperature	minimum 12°C up to maximum 30°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	at 12°C: 70 % (dew point +3°C) at > 23°C: 80 % (dew point +3°C)
Duration between coats (should the duration between coats be too soon, curing of the subsequent coat will be affected)	12°C: min. 24 hours max. 7 days 23°C: min. 12 hours max. 5 days 30°C: min. 6 hours max. 3 days
Curing time / foot traffic (12°C / 23°C / 30°C)	48 hours / 24 hours / 12 hours
Curing time / mech. resistance (12°C / 23°C / 30°C)	96 hours / 48 hours / 36 hours
Curing time / chem. resistance (12°C / 23°C / 30°C)	7 days / 5 days / 4 days
All above values are approximate and may be used as a guideline for specifications	

Packaging:

15 kg - pails

Colour:

pebble grey approx. RAL 7032 (other colours are available on request)
- due to raw material variations and manufacturing techniques, a slight colour / batch difference may occur -

Storage:

12 months, unopened in original drums under dry conditions and a temperature of 15 - 25°C.
Protect from frost! Please consult us.

1. Surface preparation

Prior to the application the substrate must be prepared by mechanical means using qualified equipment e.g. abrasive diamond grinding or Blastrac® shot blasting. N/B: Shot blasting effects the surface finish (visible blasting marks).

Minimum requirements:

- free of cement laitance, dust, oil, fat and other contaminants
- open textured, absorbent surface
- pull off strength min. 1.5 N/mm² (if the substrate shows lower values, please consult us)

- concrete residual moisture max. 4 %

The surface that is to be coated must be in sound condition and of a good quality in general. Should there be any doubt about the surface, we advise the application of a primer with **AB-ZEROPOX 803**. See also "general preparation and application instructions" sheet.

2. Application

Prior to mixing, the temperature of the components must be between 15 - 25°C. Mix the components in the correct ratio using a suitable low speed electric mixer (300 - 400 rpm) for at least 3 minutes or until a completely homogeneous mixture has been achieved. Put the mixed material into a clean container and mix again for at least 1 minute more. **Depending on use (walls / floors) a maximum of 5 % of potable water can be added whilst stirring constantly to achieve the right viscosity!** Distribute the mixture immediately onto the surface. To spread **AB-ZEROPOX 878** as an even coat use a rubber squeegee / rake. To attain an acceptable finish use a suitable paint-roller. Avoid overlapping where possible. Ponding on the surface and a too thick coat will cause cracking. Always ensure when applying **AB-ZEROPOX 878** that there is adequate ventilation. Due to the aqueous nature of the product, insufficient ventilation will prevent the evaporation of water, and therefore have an affect on the curing. Only the use of a paint-roller may lead to a finish that has shadows; this is normally due to an uneven thickness (WFT).

Please observe the work and re-coat times, otherwise the curing of the subsequent coat will be affected. Prior to, during and after the application the temperature of the substrate must be at least +3°C above the current dew point temperature.

3. System description

The following figures are for ambient and surface temperatures of 15 - 23°C. Both high and low temperatures will influence the consumption per m², the levelling and the curing properties.

Sealer / coat:

AB-ZEROPOX 878, pebble grey

Consumption: 2 x approx. 0.2 kg/m².

On absorbent surfaces like concrete.

The first coat can be diluted with 5 % of potable water.

If an anti-slip finish is required we recommend to add about 2.5 % Geba sand to the product prior to the application, or lightly sprinkle the surface with quartz sand e.g. Ø 0.1 - 0.4 mm. Please note that when applied on sensitive substrates such as mastic asphalt, bubbling may occur by the influence of chemicals.

Professional maintenance will increase the service life of the flooring system.

N/B:

UV radiation cause discolouration.

4. Chemical resistance

Improper handling with detergents and disinfectants may cause discolouration. This also can happen in case of contact with acids, alkaline and oxidising chemicals. Depending on the requirements, we recommend to test the chemical resistance.

5. Packaging

15 kg - sets

2.5 kg component A

12.5 kg component B

6. Health and safety

GISCODE: RE30

Wear suitable protective clothing, gloves and eye / face protection. Adequate ventilation of the working area is recommended. After contact with skin, wash immediately with plenty of water (eye-wash bottle from pharmacy) and soap. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When using do not eat, drink, smoke and keep away from sources of ignition. For additional references to safety-hazard warnings, regulations regarding the transport and waste management please refer to the relevant Safety Data Sheet.

7. EU Directive ("Decopaint-RL"):

Acc. to the EU Directive 2004/42/EG the maximum allowed content of VOC (Product category All / j / type WB) is 140 g/l (Limit 2010) for the ready to use product. This product is in accordance with the EU Directive 2010.

AB-ZEROPOX 878; 2.02/10.02.21. Before use, please check that this is the actual edition of the Technical Data Sheet. The information contained in this Technical Data Sheet is of a general nature and is provided in good faith and we accept no liability for errors or omissions. Because use and application of this product are out of our control and depend, concerning substrate, load and method of application, on the particularities of the individual case, our advice, verbal, written or based on tests, does not exempt the applicator from testing the suitability of the products for the intended use.

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