

Technical Data Sheet



AB-POX[®] 780

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

Description: 2-component epoxy sealer / coating, coloured
VOC < 140 g/l, water-based

- Characteristics:**
- good coverage / high pigment content
 - slight odour
 - ready to use
 - abrasion resistant
 - fast drying
 - permeable to water vapour diffusion
 - easy to apply
 - economical
 - silk gloss finish
 - inert and harmless once cured

Application: **AB-POX 780** is a high economical coating that offers good coverage, speed of application and protects floors and walls. As a professional coating, **AB-POX 780** is fast drying (re-coat after approx. 5 hours) and 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-POX 780** 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.

Consumption: 0.15 - 0.2 kg/m² per coat, we recommend 2 coats.

- 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 : 150 by weight (1 : 1.5)
	Density (23°C)	approx. 1.30 g/cm ³
	Volume solids	approx. 50 %
	Viscosity (23°C)	approx. 300 mPa·s ± 100

Details for application:	Pot life (12°C / 23°C / 30°C)	approx. 50 minutes / 45 minutes / 30 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: 75 % (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. 48 hours 23°C: min. 12 hours max. 24 hours 30°C: min. 6 hours max. 24 hours
	Curing time / foot traffic (12°C / 23°C / 30°C)	24 hours / 12 hours / 6 hours
	Curing time / mech. resistance (12°C / 23°C / 30°C)	96 hours / 48 hours / 48 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.
At temperatures < 15°C crystallisation is possible. 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
 - 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-POX 002**.

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. Distribute the mixture immediately onto the surface. To spread **AB-POX 780** as an even coat use a rubber squeegee. To attain an acceptable finish use a suitable paint-roller (nylon, 14 mm). Avoid overlapping where possible. Ponding on the surface and a too thick coat will cause cracking. Always ensure when applying **AB-POX 780** 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). Should the application for any reason be interrupted, tape the edges of the applied material. After approx. 1 hour remove the tape, you will notice that a well defined seam has been created. 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.

Sealer / coat:

AB-POX 780, pebble grey

Consumption: 2x approx. 0.15 - 0.2 kg/m²

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:

Mechanical wear and tear can affect the aesthetic quality of the surface (pale scratch marks). In time the surface will become marked.

N/B:

UV radiation cause discolouration.

4. Chemical resistance

Acetic acid 5 %	resistant
Acetic acid 10 %	short-term
Ammonia 5 %	resistant
Boric acid 4 %	resistant
Citric acid < 10 %	resistant
Distilled water	resistant
Formaldehyde 37 %	resistant
Formic acid 2 %	resistant
Formic acid 5 %	short-term
Hydrochloric acid 10 %	short-term
Petrol / Super	resistant
Phosphoric acid 25 %	resistant
Saline solution	resistant
Sodium lye 50 %	resistant
Sulphuric acid 20 %	short-term
Xylene	short-term

Tested on EP - coatings, because there is a direct correlation between the topcoat thickness, and the chemical resistance of the coating layer. Whether discolouration did occur was not considered.

5. Packaging

15 kg - sets
6 kg component A
9 kg component B

6. Health and safety

GISCODE: RE50

Avoid inhalation of the vapours and contact with skin. 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 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-POX 780; 2.00/07.01.19. 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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