

Technical Data Sheet



AB-ZEROPOX® 841

2-C-EP-hard-elastic coating



Description: 2-component epoxy coating, coloured, contains unique fillers
very low emission

- Characteristics:**
- in accordance with OS 8
 - hard-elastic
 - economical
 - does not readily attract dirt / easy to clean
 - very high chemical resistance
 - high mechanical resistance
 - high abrasion resistance
 - inert and harmless once cured

Application: **AB-ZEROPOX 841** is an economical and cost-effective industrial floor coating that has special fillers added. **AB-ZEROPOX 841** is used as a topcoat over surfaces that have had anti-slip aggregates broadcast over them. This product is very easy to apply. Used in conjunction with **AB-ZEROPOX**-primers / key coats, it is possible on cementitious substrates to create a quality and highly aesthetic flooring system, which has a high chemical and mechanical resistance.

AB-ZEROPOX 841 is suitable in accordance with AB-PDS 8 for parking decks (OS 8).

Consumption: 0.5 - 1.0 kg/m².

- Resistant to:**
- water / sewage
 - washing agents / detergents
 - saline solutions
 - wet temperature max. 40°C
 - solvents (please consult us)
 - diluted acids and alkalis
 - lubricants and fuels
 - wet temperature short-term max. 60°C

Technical Data:

Mixing ratio A : B	100 : 20 by weight (5 : 1)
Density (23°C)	approx. 1.4 g/cm ³
Volume solids	approx. 100 %
Viscosity (23°C)	approx. 1300 mPa·s ± 400
Compressive strength (DIN EN ISO 604)	> 35 N/mm ²
Shore D - hardness (DIN EN ISO 868)	approx. 65
Abrasion (1000 g / 1000 rev.) acc. to Taber	45 mg

Details for application:

Pot life (12°C / 23°C / 30°C)	approx. 60 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: 75 % (dew point +3°C) at > 23°C: 85 % (dew point +3°C)
Curing time / foot traffic (12°C / 23°C / 30°C)	72 hours / 48 hours / 24 hours
Curing time / mech. resistance (12°C / 23°C / 30°C)	96 hours / 72 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: 30 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 < 10°C crystallisation is possible. Please consult us.

1. Surface preparation

Prior to the application the substrate must be prepared by mechanical means using qualified equipment e.g. Blastrac® shot blasting.

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 %

Depending on the condition of the substrate the surface must be made non-porous by the application of a primer and / or key coat using **AB-ZEROPOX 803**, followed by a light sprinkle of clean, dry quartz sand Ø 0.1 - 0.3 mm. If a non-slip effect is required the surface must be sprinkled with e.g. clean, dry quartz sand Ø 0.4 - 0.8 mm.

On concrete surfaces where there is rising damp, residual moisture or damp concrete of maximum 6 %, AB-ZEROPOX 810 must be used.

Once cured, carefully remove excess sand. 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 apply use a notched rake (rubber or metal). Spread **AB-ZEROPOX 841** as an even coat ensuring a uniform thickness and finish (if necessary) with a paint-roller. As topcoat over an anti-slip surface that has been broadcast with quartz sand, sharply scrape using a rubber rake the material over the top of the surface, and finish with a short-haired paint-roller. 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 filler ratio and the consumption per m².

Primer:

AB-ZEROPOX 803, clear

Consumption: approx. 0.3 - 0.5 kg/m², lightly sprinkle with clean, dry quartz sand Ø 0.4 - 0.8 mm (approx. 0.5 kg/m²).

Key coat:

AB-ZEROPOX 803 + quartz sand

Consumption: approx. 0.6 kg/m² resin plus quartz sand, lightly sprinkle with clean, dry quartz sand Ø 0.1 - 0.3 mm (approx. 0.5 kg/m²).

Coating:

AB-ZEROPOX 841, pebble grey

Consumption: approx. 0.5 - 1.0 kg/m².

System thickness: 0.8 - 1.5 mm.

Should a significant degree of anti-slip be required, we advise that a liberal amount of quartz sand / aggregate be spread, then apply a topcoat using **AB-ZEROPOX 841**.

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

N/B:

UV radiation cause discolouration.

4. Chemical resistance

Depending on the requirements we recommend to test the chemical resistance.

5. Packaging

30 kg - sets

25 kg component A

5 kg component B

6. Health and safety

GISCODE: RE30

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 SB) is 500 g/l (Limit 2010) for the ready to use product. This product is in accordance with the EU Directive 2010.

AB-ZEROPOX 841; 2.01/17.03.20. 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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