Technical Data Sheet

AB-ZEROPOX® 848

2-C-EP-textured coating

Description:

2-component textured epoxy coating, thixotropic, coloured
very low emission

Characteristics:

- tough-hard
- easy to clean
- thixotropic
- very high chemical resistance
- very high mechanical resistance
- high abrasion resistance
- inert and harmless once cured

Application:

AB-ZEROPOX 848 is a very low emission, textured coating for production plants, sales areas and warehouses. Using **AB-ZEROPOX 848** applied as an economical thin coat it is quite simple to achieve a tough, integral and textured anti-slip finish. The cured surface is easy to clean and maintain. For applications in -wet areas it is recommended that either quartz sand or silicon carbide is added. Due to the good working properties of this product, it is easy to apply. Used in conjunction with **AB-ZEROPOX** - primers, 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 848** is suitable for industrial areas and public buildings e.g. schools, hospitals, kindergartens, shopping malls and other indoor projects with high requirements to room climate. **AB-ZEROPOX 848** meets the strictest criteria regarding the lowest emissions of indoor air pollutants.

Consumption:

0.5 - 0.7 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 : 16.6 by weight (6 : 1)
Density (23°C)	approx. 1.65 g/cm³
Volume solids	approx. 100 %
Viscosity (23°C)	thixotropic
Compressive strength (DIN EN ISO 604)	> 60 N/mm²
Shore D - hardness (DIN EN ISO 868)	approx. 80
Tensile strength (DIN EN ISO 178)	45 N/mm²
Abrasion (1000 g / 1000 rev.) acc. to Taber	40 mg

Details for application:

Pot life (12°C / 23°C / 30°C)	approx. 60 minutes / 40 minutes / 20 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)	48 hours / 24 hours / 20 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)	8 days / 6 days / 5 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.
On concrete surfaces where there is rising damp, residual moisture or damp concrete of maximum 6 %, AB-ZEROPOX 810 must be used. Please consult us!
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. After mixing, fillers can be added whilst stirring constantly. Distribute the mixture immediately onto the surface. To apply use a fine notched trowel (rubber or metal, e.g. tooth blade A3). Spread **AB-ZEROPOX 848** as an even coat ensuring uniform thickness. The applied coating must receive a coarse foam roller in order to achieve an integral and textured surface / finish. 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 + **5 % pigment** (to match with the coating).
Consumption: approx. 0.6 kg/m² resin plus quartz sand and pigment; lightly sprinkle with clean, dry quartz sand Ø 0.1 - 0.3 mm (approx. 0.5 kg/m²).

Textured coating:
AB-ZEROPOX 848, pebble grey
Consumption: approx. 0.5 - 0.7 kg/m².

System thickness: 0.8 - 1.2 mm.

By using both the clear and pigmented polyurethane topcoats it is possible to modify the aesthetic finish e.g. silk matt, glossy, smooth and anti-slip. Topcoats also improve both the chemical and mechanical resistance (please consult us).

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
25.73 kg component A
4.27 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 and soap. In case of contact with eyes, rinse immediately with plenty of water (eye-wash bottle from pharmacy) 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 AII / 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.

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