

VOS < 1 %

since 2008

DREAM CLIMATE



AB-POLYMERCHEMIE GmbH
Quality and Competence



„Practically zero emissions“ thanks to AB-ZEROPOX® und AB-ZEROPUR®

Demonstrable improved indoor air quality for the applicator and users through innovative and benzyl alcohol-free coating materials (VOC <1%).

This demands high standards of ourselves and also of the professional applicator companies in the field. We see our common aim to live economic management according to the current state of the art.

Our ambition: sustainable improvements in quality, safety, health and the environment.

Since 2010 for industrial floorings is a maximum of 500 g / ltr. VOC (volatile organic compounds) legal. In practice all up to now used coating products fulfil this maximum limit. The allowed amounts of VOC can nevertheless lead to annoying odour nuisance.

The requirements of the AgBB (Committee for Health-related Evaluation of Building Products) are much more far-reaching with very low limit values for a variety of VOCs. Here after 3 days of pre-conditioning the air of test chambers is analyzed after 3, 7 and 28 days. The maximum permissible value is 1 mg / m³ (1/1000 g).

Our special **AB-ZEROPOX®** and **AB-ZEROPUR®** formulations fulfil the strict requirements according to **AgBB** regarding the emission of harmful substances from the coatings and have also been approved by the process engineering / safety chemicals of well-known automobile manufacturers. For the below listed two systems we had the following approvals at DIBt (Deutsches Institut für Bautechnik) received:

System I / Comfort flooring – AB-ZEROPUR® with the approval number **Z-156.605-1297** and **System II / Industrial flooring – AB-ZEROPOX®** with the approval number **Z-156.605-1304**.

The national technical approval regulated the applicability of the approved product according to the harmonized standard DIN EN 13813 for the use in interiors with proof of the emission behavior.





The essential difference from the previously known epoxy resin and polyurethane-systems is that the **AB-ZERO** products (VOC <1%) no longer contain benzyl alcohol and have been optimized again with regard to allergenic behavior during processing. During the application phase practically no odours are left so that coating operations can be executed even during ongoing production.

The **AB-ZERO** products are used wherever increased demands are placed on the air quality, e. g. recreation rooms, kindergartens, schools, hospitals, office, social and sales rooms, laboratories, production halls as well as all public and industrial sectors. Facing the market development we have consciously tested both the system and each individual components for the **AB-ZERO** qualities. So it is proven that the coating systems it consistently "practically emission-free" and all components meet the strict criteria according to AgBB. Consequently a subsequent release of volatile organic compounds (VOCs) can be excluded. Therefore these innovative coating systems are from the "crest to the sole" practically emission-free. Thus creates completely new quality standards for planners, applicators and users.

The versatile **AB-ZERO** product range offers for a wide range of applications professional and economical solutions. We will be happy to provide you with corresponding system examples and text modules for the creating of building services descriptions. With the **AB-ZEROPOX**® and **AB-ZEROPUR**® qualities we have been offering since 2008 the most innovative and most advanced systems on the market. True to our company philosophy we will continue also in the future to promote the development of these forward-looking coating materials. Here the health and environmental aspects and thereby the greatest possible safety for the applicator, planner, builder and user are the main issues.



Product list



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Product	Description	Notes
Epoxy primer (for cementitious substrates):		
AB-ZEROPOX® 801	2-C-EP-practically emission-free base resin	VOC < 1 %, free of benzyl alcohol, AgBB
AB-ZEROPOX® 803	2-C-EP-practically emission-free universal resin	VOC < 1 %, free of benzyl alcohol, AgBB
AB-ZEROPOX® 805	2-C-EP-rapid practically emission-free resin	VOC < 1 %, free of benzyl alcohol, AgBB
AB-ZEROPOX® 810	2-C-EP-practically emission-free special resin - approved against rising damp -	VOC < 1 %, free of benzyl alcohol, AgBB
Polyurethane primer (for bituminous substrates indoor):		
AB-ZEROPUR® 837	2-C-PU-self-levelling coating, tough-hard	VOC < 1 %, AgBB
Epoxy coatings:		
AB-POX® 460 ESD	2-C-EP-ESD polymer coating, free of salts	contains no ionic liquids
AB-ZEROPOX® 843	2-C-EP-self-levelling coating, tough-hard	VOC < 1 %, free of benzyl alcohol, AgBB
AB-ZEROPOX® 843 AS	2-C-EP-antistatic coating, tough-hard	VOC < 1 %, free of benzyl alcohol, AgBB
AB-ZEROPOX® 845	2-C-EP-multi-floor coating, tough-hard	VOC < 1 %, free of benzyl alcohol, AgBB
AB-ZEROPOX® 848	2-C-EP-textured coating, tough-hard	VOC < 1 %, free of benzyl alcohol, AgBB
AB-ZEROPOX® 848 AS	2-C-EP-antistatic textured coating, tough-hard	VOC < 1 %, free of benzyl alcohol, AgBB
Polyurethane coatings:		
AB-ZEROPUR® 835	2-C-PU-elastic coating, tough-elastic - topcoat is necessary -	VOC < 1 %, AgBB
AB-ZEROPUR® 836	2-C-PU-decorative coating, tough-elastic, UV-resistant - topcoat is necessary -	VOC < 1 %, AgBB
AB-ZEROPUR® 837	2-C-PU-self-levelling coating, tough-hard - topcoat is recommended -	VOC < 1 %, AgBB
AB-ZEROPUR® 837 AS	2-C-PU-antistatic coating, tough-hard	VOC < 1 %, AgBB
Epoxy topcoats:		
AB-ZEROPOX® 878	2-C-EP-sealer / coating, water-based, coloured, silk gloss	VOC < 1 %, AgBB
AB-ZEROPOX® 883	2-C-EP-textured topcoat, coloured, anti-slip	VOC < 1 %, free of benzyl alcohol, AgBB
Polyurethane topcoats (contents of tyres / plasticizers can lead to discolourations):		
AB-PUR® 795	2-C-PU-topcoat, water-based, clear, silk gloss	VOC < 85 g/l, AgBB
AB-ZEROPUR® 872	2-C-PU-decorative binder, clear, glossy, tough-hard	VOC < 1 %, AgBB
AB-ZEROPUR® 872 T	2-C-PU-anti-slip topcoat, clear, glossy, tough-hard	VOC < 1 %, AgBB
AB-ZEROPUR® 873 Flex	2-C-PU-topcoat, water-based, clear, silk matt, elastic	VOC < 1 %, AgBB
AB-ZEROPUR® 873 Flex P	2-C-PU-topcoat, water-based, coloured, silk matt, elastic	VOC < 1 %, AgBB
AB-ZEROPUR® 874	2-C-PU-topcoat, water-based, clear, silk matt, tough-hard	VOC < 1 %, AgBB
AB-ZEROPUR® 874 P	2-C-PU-topcoat, water-based, coloured, silk matt, tough-hard	VOC < 1 %, AgBB
Special products:		
AB-ZEROPOX® 860 LS	2-C-EP-conductive coating, water-based	VOC < 1 %, AgBB
AB-ZEROPOX® 860 LS-VDE	2-C-EP-conductive coating, water-based	VOC < 1 %, AgBB
AB-ZEROPUR® 872	2-C-EP-conductive binder, clear, UV-resistant	VOC < 1 %, AgBB

Fields of application

Characteristics

Products / Example of use



- kindergarten
- retirement homes
- hospitals
- public areas
- schools

applicable on most substrates

- made from resources that are natural and can be replenished
- hygienic - seamless / without joints
- environmentally friendly
- tough and elastic
- absorb sound 4 - 7 decibel
- ergonomic
- crack-bridging up to 1 mm / 20°C
- hard-wearing
- decorative designs can be made
- fire classification B1
- inert and harmless once cured
- in acc. to AgBB-standards (VOC < 1 %)

AB-ZEROPOX® 801 / AB-ZEROPUR® 837
2-K-EP- / 2-K-PU-Grundierung

AB-ZEROPUR® 835
2-K-PU-Elastik-Beschichtung
oder
AB-ZEROPUR® 836
2-K-PU-Dekor-Beschichtung

AB-ZEROPUR® 873 Flex / 873 Flex P
2-K-PU-Decklack, wässrig
transparent - seidenmatt
bzw.
pigmentiert - seidenmatt

Schichtdicken 3 - 5 mm



- multipurpose halls
- fitness rooms
- rehabilitation centres
- schools
- public areas

applicable on most substrates

- made from resources that are natural and can be replenished
- hygienic - seamless / without joints
- environmentally friendly
- tough, hard and elastic
- absorb sound
- ergonomic
- crack-bridging up to 0.3 mm / 20°C
- very hard-wearing
- decorative surfaces can be designed
- fire classification B1
- inert and harmless once cured
- in acc. to AgBB-standards (VOC < 1 %)

AB-ZEROPOX® 805 / AB-ZEROPUR® 837
2-K-EP- / 2-K-PU-Grundierung

AB-ZEROPUR® 837
2-K-PU-Verlaufbeschichtung
bei Bedarf mit Farbchipeinstreuung

AB-ZEROPUR® 872 / 872 T
2-K-PU-Dekor-Bindemittel
transparent - glänzend (T = Textur)
oder

AB-ZEROPUR® 874 (T) / 874 P (T)
2-K-PU-Decklack, wässrig
transparent - seidenmatt
bzw.
pigmentiert - seidenmatt
(T = Textur)

Schichtdicken 2 - 4 mm



- roller skating rinks / areas
- canteens
- offices
- sales areas / showrooms

applicable on most substrates
concrete, screeds, mastic asphalt
(indoor), wood, steel, etc.

- robust
- tough, hard and elastic
- absorb sound
- high abrasion resistance
- can be applied as an anti-skid surface
- easy to clean
- resistant to cigarettes
- resistant to mechanical damage
- crack-bridging up to 0.3 mm / 20°C
- fire classification B1
- inert and harmless once cured

AB-ZEROPOX® 810 / AB-ZEROPUR® 837
2-K-EP- / 2-K-PU-Grundierung

AB-ZEROPUR® 837
2-K-PU-Verlaufbeschichtung
gemäß Rutschhemmungsklasse
im Überschuss abstreuen mit
Quarzsand Ø 0,4 - 0,8 mm oder 0,7 - 1,2 mm

AB-ZEROPUR® 872
2-K-PU-Dekor-Bindemittel
transparent - glänzend

Schichtdicken 4 - 10 mm

Fields of application

Characteristics

Products / Example of use



- warehouses
- workshops
- industrial plants
- automotive industry

for cement based substrates

- medium resistance to mechanical and chemical stress
- easy to clean
- economical
- smooth or anti-skid
- benzyl alcohol, nonyl phenol and softener free
- inert and harmless once cured
- in acc. to AgBB-standards (VOC < 1 %)

AB-ZEROPOX® 801/ 803 / 805 / 810
2-K-EP-Grundierungen

AB-ZEROPOX® 845
2-K-EP-Roll- / Verlaufbeschichtung
oder

AB-ZEROPOX® 848
2-K-EP-Struktur-Beschichtung

Schichtdicken 1 - 1,5 mm



- warehouses
- workshops
- industrial plants
- automotive industry

for cement based substrates

- medium resistance to mechanical and chemical stress
- easy to clean
- economical
- smooth or anti-skid
- benzyl alcohol, nonyl phenol and softener free
- inert and harmless once cured
- in acc. to AgBB-standards (VOC < 1 %)

AB-ZEROPOX® 801/ 803 / 805 / 810
2-K-EP-Grundierungen

AB-ZEROPOX® 843
2-K-EP-Verlaufbeschichtung
oder

AB-ZEROPOX® 845
2-K-EP-Roll- / Verlaufbeschichtung

Schichtdicken 2 - 5 mm



- food industry
- butcheries
- canteen kitchens
- bakeries

for cement based substrates

- robust
- decorative surfaces can be designed
- high resistant to abrasion
- easy to clean
- anti-skid
- nonyl phenol and softener free
- inert and harmless once cured

AB-ZEROPOX® 801/ 803 / 805 / 810
2-K-EP-Grundierungen

AB-ZEROPOX® 845
2-K-EP-Roll- / Verlaufbeschichtung
gemäß Rutschhemmungsklasse
im Überschuss abstreuen mit
Quarzsand Ø 0,4 - 0,8 mm oder 0,7 - 1,2 mm

AB-ZEROPOX® 845
2-K-EP-Roll- / Verlaufbeschichtung
pigmentiert - glänzend
oder

AB-ZEROPUR® 872
2-K-PU-Dekor-Bindemittel
transparent - glänzend

Schichtdicken 4 - 10 mm

Fields of application



- warehouses
- workshops
- industrial plants
- automotive industry

Characteristics

for cement based substrates

- medium resistance to mechanical and chemical stress
- easy to clean
- economical
- smooth or anti-skid
- benzyl alcohol, nonyl phenol and softener free
- inert and harmless once cured
- in acc. to AgBB-standards (VOC < 1 %)

Products / Example of use

AB-ZEROPOX® 801 / 803 / 805 / 810
2-K-EP-Grundierungen

AB-ZEROPOX® 843
2-K-EP-Verlaufbeschichtung

AB-ZEROPOX® 883
2-K-EP-Struktursiegel

Schichtdicken 2 - 5 mm



- production plants
- trade and industry

antistatic EP-system for cement based substrates

- antistatic
- electrically conductive:
smooth: $10^4 - 10^6 \Omega / 100 \text{ volt}$
anti-skid < $10^9 \Omega / 100 \text{ volt}$
- high resistance to mechanical and chemical stress
- nonyl phenol and softener free
- high acid resistance
- tough and hard surfaces
- smooth or anti-skid
- inert and harmless once cured

AB-ZEROPOX® 801 / 803 / 805 / 810
2-K-EP-Grundierungen

AB-ZEROPOX® 860 LS-VDE
2-K-EP-Leitschicht, wässrig

AB-ZEROPOX® 843 AS
2-K-EP-Antistatik-Beschichtung
oder

AB-ZEROPOX® 848 AS
2-K-EP-Antistatik-Struktur-Beschichtung

Schichtdicken 1,5 - 3 mm



- electronics production
- computer technology
- clean-room technology

unique ESD-system for cement based substrates and existing coatings

- walkingtest < 30 volt / 12 % relative humidity
DIN EN 61340-5-1 / 5-2
EOS / ESD-STM 97.2
- system resistance < $1 \times 10^7 \Omega$
DIN EN 61340-5-1 / 5-2
EOS / ESD STM 97.1 and 97.2
- discharge value < $1 \times 10^6 \Omega$
DIN IEC 1340-4-1
- static decay of a voltage from 1.000 volt to 50 volt < 0.3 sec.
DIN EN 61340-5-1 / 5-2
- nonyl phenol and softener free
- self-levelling
- resistant to mechanical and chemical stress
- easy to clean
- inert and harmless once cured

AB-ZEROPOX® 801 / 803 / 805 / 810
2-K-EP-Grundierungen

AB-ZEROPOX® 860 LS-VDE
2-K-EP-Leitschicht, wässrig

AB-POX® 460 ESD
2-K-EP-ESD-Polymer-Beschichtung

Schichtdicken 1,5 - 3 mm

References are our advertising



AB-POLYMERCHEMIE GmbH
Quality and Competence



Industrial flooring

Audi AG
BMW AG
Carl Zeiss Jena GmbH
Continental AG
Daimler AG
Feuerwehr Uslar
Hilti AG
Marquardt GmbH
Robert Bosch GmbH
Siemens AG
SMA Solar Technology AG
Volkswagen AG



Waterproofing

Aquarium Wilhelmshaven
IKEA Hannover
Kläranlage Wilhelmshaven
MTRC Tunnel Hong Kong
Parc 66 Jinan
PHAENO Wolfsburg
Universität Hong Kong



Corrosion protection

BARD Offshore I
Leuchtturm Hohe Weg
Nord-West Oelleitung GmbH
Schluchseewerk AG
TIWAG-Tiroler Wasserkraft AG

Top-quality products are achieved only by a highly motivated and qualified team, innovative research and development as well as a consistent production technology. Our industrial floor coatings, spray elastomers and the new and innovative corrosion protection coatings are based on these conditions. The epoxy and polyurethane resin, polyurea and acrylics based products of ABP-Coatings represent our Quality and Competence "Made in Germany". Along with a fair and open-minded business policy we guarantee customer satisfaction.



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