Technical Data Sheet	ABP	AB-POX <sup>®</sup> 481 AS 2-C-EP-antistatic hard-elastic coating
	2-component epoxy coating with electrostatic conduct VOC < 500 g/l, free of nonylphenol	ivity, coloured, contains special fillers
	<ul> <li>electrostatically conductive DIN EN 1081; DIN EN 61340-4-1</li> <li>hard-elastic</li> </ul>	<ul> <li>very high chemical resistance</li> <li>high mechanical resistance</li> <li>high abrasion resistance</li> <li>does not readily attract dirt / easy to clean</li> <li>inert and harmless once cured</li> </ul>
	<b>AB-POX 481 AS</b> is an electrically conductive, hard-elastic industrial floor coating for production plants, sales areas and warehouses. <b>AB-POX 481 AS</b> is used as electrostatically topcoat on electrostatic conductive <b>AB-POX-</b> and <b>AB-PUR</b> - systems that have been broadcast with anti-slip silicon carbide. <b>AB-POX 481 AS</b> is designed for use in storage and production facilities; also in areas where there is risk of explosion, due in the main to its high chemical and mechanical resistance, and obviously its conductivity. Average value of electrical resistance $R_E$ : non-slip surface < 10 <sup>9</sup> $\Omega$	
Consumption:	0.8 - 1.0 kg/m².	
	<ul> <li>water / sewage</li> <li>washing agents / detergents</li> <li>saline solutions</li> <li>wet temperature max. 40°C</li> </ul>	<ul> <li>solvents (please consult us)</li> <li>diluted acids and alkalis</li> <li>lubricants and fuels</li> <li>wet temperature short-term max. 60°C</li> </ul>
Technical Data:	Mixing ratio A : B	100 : 20 by weight (5 : 1)
	Density (23°C)	approx. 1.40 g/cm <sup>3</sup>
	Volume solids Viscosity (23°C)	approx. 100 % approx. 1500 mPa·s ± 300
	Compressive strength (DIN EN ISO 604)	> 35 N/mm <sup>2</sup>
	Shore D - hardness (DIN EN ISO 868)	approx. 60
	Abrasion (1000 g / 1000 rev.) acc. to Taber	45 mg
Details for	Det life (12°C / 22°C / 20°C)	opprov. 60 minutos / 40 minutos / 25 minutos
ann lla atlant	Pot life (12°C / 23°C / 30°C) Substrate temperature	approx. 60 minutes / 40 minutes / 25 minutes 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)
_	Ouring time $l$ fact traffic $(12^{\circ}C \mid 22^{\circ}C \mid 20^{\circ}C)$	at > 23°C: 85 % (dew point +3°C)
	Curing time / foot traffic (12°C / 23°C / 30°C) Curing time / mech. resistance (12°C / 23°C / 30°C)	36 hours / 24 hours / 16 hours 96 hours / 48 hours / 24 hours
	Curing time / chem. resistance $(12^{\circ}C / 23^{\circ}C / 30^{\circ}C)$	7 days / 5 days / 3 days
	All above values are approximate and may be used as	
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<sup>®</sup> 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/mm<sup>2</sup>

• concrete residual moisture max. 4 % Depending on the condition of the substrate the surface must be made <u>non-porous</u> by the application of a primer and / or key coat using **AB-POX 002**.

On concrete surfaces where there is rising damp, residual moisture or damp concrete of maximum 6 %, AB-POX 010 must be used. As AB-ZEROPOX 860 LS is a conductive intermediate coat it must be applied evenly. Prior to the application AB-ZEROPOX 860 LS, of the connection to earth must be installed using spliced copper cable, and controlled in accordance with its function and adhesion.

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. Do not add any fillers, as they will impair the conductivity. Distribute the mixed material immediately onto the surface. To apply AB-POX 481 AS as topcoat over an anti-slip surface that has been broadcast with silicon carbide, 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  $15 - 23^{\circ}$ C. Both high and low temperatures will influence the filler ratio and the consumption per m<sup>2</sup>.

**AB-POX 481 AS** is suitable as an electrostatic conductive topcoat over silicon carbide that has been broadcast onto **AB-POX-** and **AB-PUR -** systems.

Topcoat on intermediate SIC - surfaces: **AB-POX 481 AS**, pebble grey Consumption: approx. 0.8 kg/m<sup>2</sup>. Non-slip classification approx. R11

#### N/B

Should flooring renovation take place or a subsequent coating be applied, there will be no conductivity properties. Please consult us.

#### N/B:

UV radiation cause discolouration.

#### 4. Cleaning

To clean the surface (manual or by machine) use only neutral or slightly alkaline (pH < 10) cleaning agents without preservation additives that will create a film. We highly recommend that you contact a specialist cleaning contractor.

## 5. Chemical resistance

Acetic acid 5 %	resistant	
Acetic acid 10 %	short-term	
Ammonia 5 %	resistant	
Boric acid 4 %	resistant	
Chlorine bleach 6 %	resistant	
Citric acid < 10 %	resistant	
Distilled water	resistant	
Formaldehyde 37 %	resistant	
Formic acid 2 %	resistant	
Formic acid 5 %	short-term	
Hydrochloric acid 10 %	resistant	
Hydrochloric acid 30 %	short-term	
Lactic acid 10 %	resistant	
Methylene chloride	not resistant	
Nitric acid 10 %	resistant	
Petrol / Super	resistant	
Phosphoric acid 25 %	resistant	
Saline solution	resistant	
Sodium lye 50 %	resistant	
Sulphuric acid 40 %	short-term	
Tannic acid solution	resistant	
Xylene	short-term	
Tested for 3 months at	20°C: whether	
discolouration did occ		
considered.		

**AB-POX 481 AS**; 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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## 6. Packaging

30 kg - sets 25 kg component A 5 kg component B

# 7. 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.

# 8. 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.