Technical Data Sheet



AB-COR[®] 928 A 2-C-EP-coating for steel constructions

Description:	2-component epoxy coating with ABP - bionic corrosion inhibitor	
Description	VOC < 2 %, free of benzyl alcohol and nonylphenol	
Characteristics:	electrically conductive	high chemical resistance
	excellent corrosion protection	good thermal resistance
	airless sprayable thivetropic	very good adhesion strength
	thixotropic	 suitable for single layer application inert and harmless once cured
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Application:	AB-COR 928 A is designed for use as high performance chemical and abrasion resistant coating and offers excellent anticorrosion properties combined with good resistance to aggressive, flammable and non-flammable liquids and chemicals.	
	AB-COR 928 A must be applied by using airless spras an electrically conductive lining of steel tanks, contained as an electrically conductive lining of steel tanks, contained as a structure of the steel tanks and the structure of the steel tanks are structured.	
Layer thickness:	approx. 750 microns DFT; maximum layer thickness approx. 1000 microns – minimum 500 microns volume resistance $\leq 10^8 \Omega$	
Consumption:	theoretical:approx. 1.1 kg/m² (at 750 microns DFT)practical:approx. 1.5 kg/m² (at 750 microns DFT)	
	The information relating to practical consumption / coverage is can be practical consumption / coverage depends on the conditions	alculated to include 30 % loss. s of the substrate. We recommend to apply a test area.
Resistant to:	crude oil, mineral oil	 non-oxidising, diluted acids
	• water, seawater, brackish water, waste water	alkalis, lyes
	 oil, fat, lubricants and fuels 	 dry heat max. +150°C
	 wet heat max. +90°C (please consult us!) 	
Technical Data:	Mixing ratio A : B	100 : 12.5 by weight (8 : 1)
	Density (23°C)	approx. 1.40 g/cm ³
	Volume solids	approx. 100 %
	Viscosity (23°C)	approx. 2700 mPa⋅s ± 500
	Electrical resistance	max. 1 x 10 ⁸ Ω
Details for	Pot life (10°C / 23°C / 30°C)	approx. 30 minutes / 20 minutes / 15 minutes
application:	Substrate temperature	minimum 10°C up to maximum 40°C
	Material temperature (flow heater)	25°C - 40°C
	Maximum relative humidity of air	85 %
	Dew point - substrate temperature	minimum +3°C above dew point
	Duration to overcoat with itself	23°C: max. 8 hours
	(in case of longer duration time the surface must be prepared by blasting)	
	Curing time / foot traffic (10°C / 23°C / 30°C)	24 hours / 12 hours / 6 hours
	Curing time / mech. resistance (10°C / 23°C / 30°C)	72 hours / 48 hours / 24 hours
	Curing time / chem. resistance (10°C / 23°C / 30°C)	7 days / 5 days / 3 days
	All above values are approximate and may be used as	
Clean up machine:	To clean and flush the spray equipment / machine we recommend to use AB-COR 999 - cleaner with a temperature of approx. 30 - 40°C.	
Packaging:	16 kg - pails (14.2 kg component A + 1.8 kg component B), other pails are available on request	
Colour:	anthracite grey - 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.	

Surface preparation:

The steel surface that is to be coated must be dry and free of mill scale, debris, grease, fat, oil, dust, areas of corrosion / rust as well as other contaminants which may impair the adhesion (see DIN report 28 "corrosion protection for steel constructions by using coating systems – testing the surface regarding to invisible contaminants before application"). Welding beads must be removed, welding seams and welding overlaps must be smooth in accordance with DIN EN 14879-1. Surface preparation by blast cleaning (with tough grit) in accordance with DIN EN 12944-4 (ISO 8501-1/-2), preparation grade Sa 2½. Use only approved blasting abrasives with angular grain. Average roughness R_{Y5} (R_2) \geq 50 microns respectively "middle (G)" in accordance with DIN EN ISO 8503-2 (ISO 8503-2). Prior to, during and after surface preparation, application and curing the substrate temperature must be minimum +3°C / 3K above the dew point (see dew point table). In case of doubt the surface cleanliness must be measured regarding soluble contaminants in accordance with EN ISO 8502-6 (Bresle method) and EN ISO 8502-9 prior to coating.

Preparation of material:

Airless spray
resp.The temperature of the components must be at least 25°C. Stir the components thoroughly and mix 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.

Application method (use without thinner!):

Airless spray		Brush / roller
Pressure ratio: Spray hose: Inlet pressure: Nozzle size: Spraying angle: Flow heater: We recommend to the material directl	ray equipment, e. g. Graco King Xtreme minimum 1 : 68 approx. 20 m ¾" + 2 m ¼" 6 - 8 bar 0.43 - 0.48 mm 40 - 70° 25 - 40°C o remove the high pressure filters and to pump y without a siphon tube. spray application it is necessary to use insulated	Recommended for small areas, repairs or to precoat edges, only. Minor defects and faults can be repaired by hand using the same material. Prior to application the surface must be prepared by grinding or blasting PSa 2 ½ and cleaning. For minor repairs, use a brush and apply AB-COR 928 A .
hoses and a flow heater (particularly at low temperatures).		

The a.m. information are recommendations only and may be adjusted depending on the conditions of the object.

Resistance:

Mechanical	Thermal	Chemical (selection)
 impact resistant high abrasion resistant 	 dry heat max. +150°C wet heat max. +90°C 	Mineral oil, solvents• crude oil, diesel / biodiesel, petrol / premium gasoline• white spirit, toluene, xylene, ethylene glycolSalt solutions• CaCl2 (saturated), NaCl (saturated)• KCl (saturated), FeCl3 (42 %)For further information about the chemical resistance, please consult us!

Due to the fact that the resistance of the coating can be affected by various factors (medium, temperature, concentration, layer thickness, etc.) we recommend to consult us prior to application.

Health and safety: GISCODE: RE30

While **AB-COR 928 A** is a (nearly) solvent free coating, it is common practice when used as a tank lining or in enclosed areas to circulate the air during and after the application until the coating is cured. The ventilation system should be capable of preventing any solvent vapour concentration from reaching the lower explosion limit for any solvents that may be present. Avoid inhalation of the vapours. Wear suitable protective clothing, gloves, eye / face protection and suitable respiratory equipment. Adequate ventilation of the working areas 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.

AB-COR 928 A; 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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