



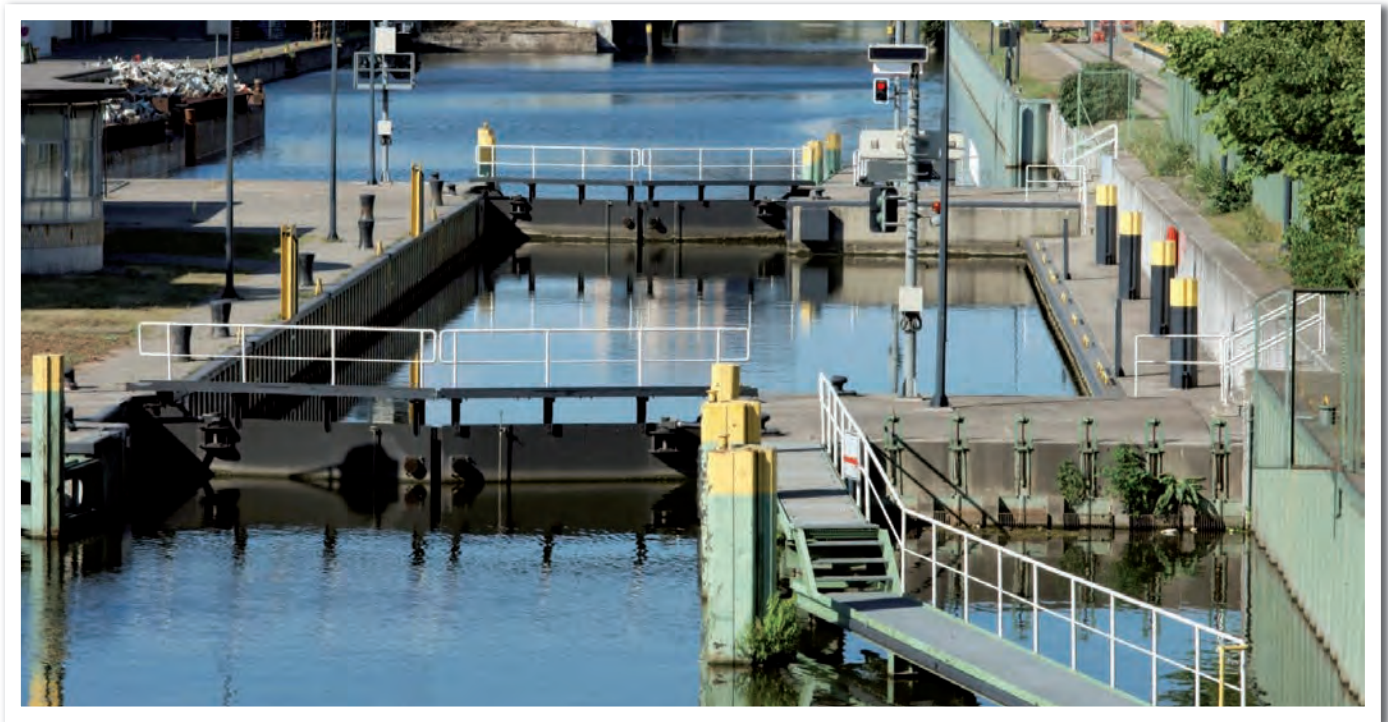
**AB-POLYMERCHEMIE GmbH**  
*Quality and Competence*

**AB-COR®**

„Bionics?“ - We got it!



AB-POLYMERCHEMIE GmbH  
Quality and Competence



## Corrosion protection based on bionics - technology

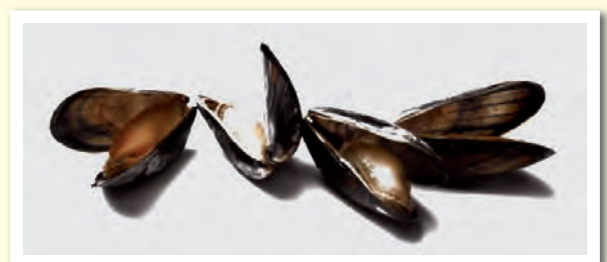


The development of **AB-COR**<sup>®</sup> products, as well as its adhesive and anti-corrosive properties, is due largely to the study and adaptation of proven adhesive methods found in nature. **AB-COR**<sup>®</sup> chemically mimics two of nature's most tenaciously bonding creatures; the gecko, which exhibits the ability to cling to smooth surfaces, and the sea mussel, which can attach itself permanently to rocks withstanding wet, dry and fully submerged conditions.

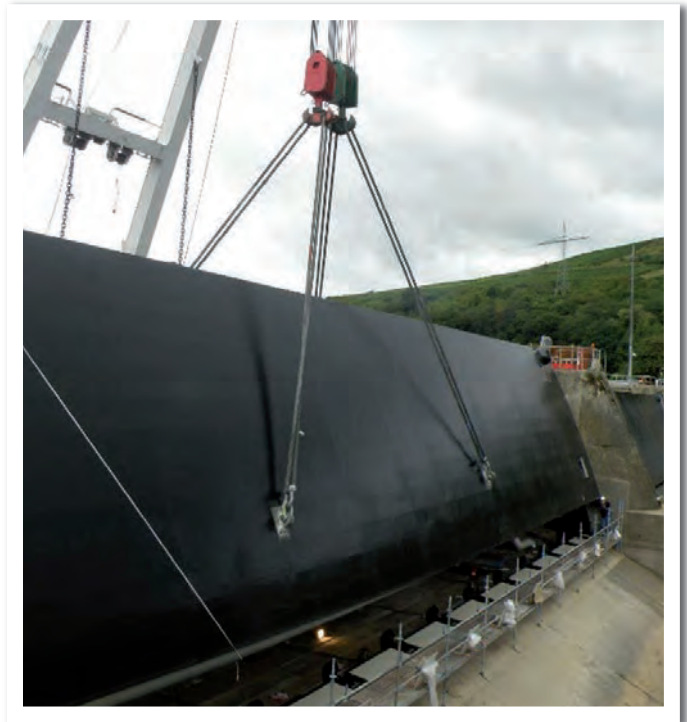
The combination of these characteristics give **AB-COR**<sup>®</sup> excellent adhesion and unmatched anti-corrosive properties. The **AB-COR**<sup>®</sup> concept - the first of its sort! Share in the progress and coat bionically with **AB-COR**<sup>®</sup>.

### Advantages of **AB-COR**<sup>®</sup> products:

- no solvent entrapment (VOC < 2 %)
- plasticizer free, means no shrinkage
- excellent adhesion strength to metallic surfaces
- high resistance against "microbial influenced corrosion" (MIC-Attack)
- easy application using airless spray equipment
- single coat application up to 1500 µm, no primer needed
- multi coat applications "wet in wet"



**Protecting health, the environment and values by high-quality and innovations!**



## Bionics - technology for best performance

**AB-COR®** products were tested for heavy corrosion protection by the Federal Waterways Engineering and Research Institute (BAW) and the internationally acknowledged SINTEF-Institute. The results were confirmed by Germanischer Lloyd (DNV GL).

**AB-COR® 950 SW** resp. **AB-COR® 955 SW** reaches optimum corrosion protection in a single coat application or in combination with the zinc dust prime coat **AB-COR® 904**. Since years **AB-COR® 950 SW** proves its qualities, such as in projects including the weirs „Palzem, Wingst and Trier“, the flood barrage “Müggendorfer Passage” in Hamburg and the oil tanker pier of the Nord-West Oelleitung GmbH (NWO) in Wilhelmshaven.

- **Confirmation by „Germanischer Lloyd“ (DNV GL)**
- **Testing by SINTEF:**  
Tested acc. to NORSOK M-501 Rev. 6, System no. 3 B and 7
- **Approval / Testing by the Federal Waterways Engineering and Research Institute (BAW)**



Coating system		
	acc. to BAW	acc. to BAW
Surface	Steel	Steel
Surface preparation	Blasting (Sa 2 1/2)	Blasting (Sa 2 1/2)
Prime coat	<b>AB-COR® 904</b>	---
Cover coat	<b>AB-COR® 950 SW</b> resp. <b>AB-COR® 955 SW</b>	
UV-protective top coat (optional)	<b>AB-COR® 971</b>	



## Performance under extreme conditions

Long lasting, thick film, abrasive resistant coating systems are necessary for the success of protecting metal structures in these harsh environments. There is no room for error when planning offshore projects. A true "single coat" system, which is nearly solvent free (VOC < 2 %), is the answer to minimize the risk of coating failures due to solvent entrapment and intercoat adhesion problems. Less is more in this case. To achieve an excellent corrosion protection we recommend to use the approved **AB-COR® 950 SW** and **AB-COR® 971** as first coat.

In case of maintenance, **AB-COR® 950 SW Repair** and **AB-COR® 971 Repair** kits are available to repair spots that need a touch-up over time. These repair kits are successfully being used at the offshore windparks "BARD Offshore 1", "Global Tech 1", "Amrumbank West" and "Fino 1". These special and fast curing formulations make it possible to do repairs within a day "wet in wet", when the weather is right. We do not stop above the waterline! **AB-COR® 930 UWS** was developed to do the job under water also in only one mobilization and in ONE coat.

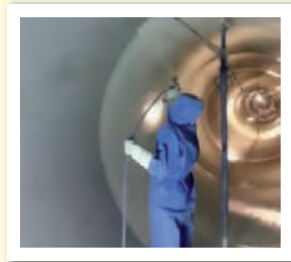


Coating system		
Surface	Steel	Existing (old) coating
Surface preparation	Blasting (Sa 2 1/2) resp. Bristle Blaster® (for repairs)	Sweep blasting, grinding, cleaning
Cover coat	AB-COR® 950 SW resp. AB-COR® 950 SW Repair	
UV-protective top coat	AB-COR® 971 resp. AB-COR® 971 Repair	



## Durability counts in extreme environments

Long lasting corrosion protection is a priority in structural engineering and in power plant construction. The nearly solvent free (VOC < 2 %) products **AB-COR® 950 SW** and **AB-COR® 955 SW**, due to their properties, are the right choice for these constructions. Intensive testing convinced RWE and EnBW, the energy market leaders in Germany, to list our bionically engineered products for internal use in their facilities.



Depending on the circumstances, **AB-COR® 950 SW**, **AB-COR® 950 SW-H**, **AB-COR® 955 SW** and **AB-COR® 955 SW-H** can be used as a single or multi coat system, easily applied with a suitable one-component airless sprayer.

The pressure pipes of the Schluchseewerk AG and TIWAG are coated with quality products from ABP!

Coating system			
Surface	Steel	Aluminum, zinc, copper, stainless steel	Existing (old) coating
Surface preparation	Blasting (Sa 2 1/2)	Sweep blasting, grinding, cleaning	
Repair filler (when required)	AB-COR® 937		
Prime coat (optional)	AB-COR® 950 SW resp. AB-COR® 955 SW		
Cover coat	AB-COR® 950 SW resp. AB-COR® 955 SW		
UV-protective top coat (optional)	AB-COR® 971 resp. AB-COR® 971 W		



## The highest mechanical and chemical resistance

Plant and tank constructions demand high profile solvent-free (VOC < 2 %) corrosion protection coatings. **AB-COR® 928 A** and **AB-COR® 928 P** are used to protect steel surfaces long-term against very aggressive flammable and non-flammable liquids and a wide range of aggressive chemicals.

For tanks, containers, silos, secondary containments and pipes, **AB-COR® 928 A** (electrically conductive) and **AB-COR® 928 P** (porosity testing possible) are ideal choices for a fast and long-term success.

**AB-COR® 928 P** is listed by BASF and is in use to protect their chemical plants. They got it!



Coating system			
Surface	Steel	Aluminum, zinc, copper, stainless steel	Existing (old) coating
Surface preparation	Blasting (Sa 2 1/2)	Sweep blasting, grinding, cleaning	
Repair filler (when required)	AB-COR® 937		
Prime coat (optional)	---	AB-COR® 928 P	
Cover coat	AB-COR® 928 A	AB-COR® 928 P	
UV-protective top coat (optional)	---	on request	



## Resistant against UV- and weathering influence

Metal, especially steel, is a wide spread, universal construction material, which is worldwide available. Because of its good constructive design options it can be used for all kind of structures. To keep the good properties of metal, the surface must be long-term protected against weathering due to water, dirt, air pollution, acid rain and UV-radiation. The thick film **AB-COR®** systems are giving metal structures optimum protection against atmospheric events and the resulting corrosion.

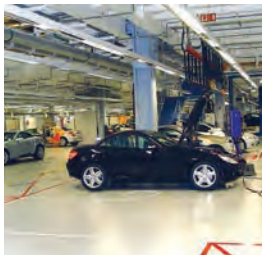


Coating system			
Surface	Steel	Aluminum, zinc, copper, stainless steel	Existing (old) coating
Surface preparation	Blasting (Sa 2 1/2)	Sweep blasting, grinding, cleaning	
Repair filler (when required)	AB-COR® 937		
Prime coat (when required)	AB-COR® 904	---	
Cover coat	AB-COR® 940	AB-COR® 955 SW resp. AB-COR® 955 SW-H	
UV-protective top coat (optional)	AB-COR® 971	AB-COR® 971 resp. AB-COR® 971 W	

# References are our advertising

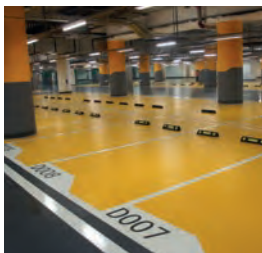


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## Industrial flooring

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



## Waterproofing

Aquarium Wilhelmshaven  
IKEA Hannover  
Sewage plant Wilhelmshaven  
MTRC Tunnel Hong Kong  
Parc 66 Jinan  
PHAENO Wolfsburg  
University Hong Kong



## Corrosion protection

BARD Offshore I  
Lighthouse 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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