

Technical Data Sheet



AB-COR® 950 SW Repair

2-C-EP-repair corrosion protection for hydraulic steel engineering and offshore

Description:

2-component epoxy coating with **ABP - bionic technology**
VOC < 2 %, free of heavy metals, benzyl alcohol, coal tar, anthracene oil and plasticizers

Characteristics:

- excellent corrosion protection
- suitable for cathodic protection systems
- high sag resistance / thixotropic
- excellent adhesion strength
- high chemical resistance
- very high abrasion resistance
- no shrinkage by migration of plasticizer
- inert and harmless once cured

Application:

AB-COR 950 SW Repair is a repair coating especially developed for small damaged areas at hydraulic steel engineering and offshore constructions. **AB-COR 950 SW Repair** must be applied by using special equipment and suitable tools in the required layer thickness.

Layer thickness:

approx. 1,6 kg/m² at 1000 microns DFT

Resistant to:

- industrial and marine conditions
- water, seawater, brackish water
- mineral oil, aliphatic hydrocarbons
- wet heat up to +50°C (please consult us)
- neutral salt solutions
- diluted acids
- oil, fat, lubricants and fuels
- dry heat up to +100°C

Technical Data:

Mixing ratio A : B	4 : 1 by weight and volume
Density (23°C)	approx. 1.60 g/cm ³
Volume solids	approx. 100 %
Viscosity (23°C)	approx. 7000 mPa·s ± 1000

Details for application:

Pot life (7°C / 23°C / 30°C)	approx. 25 minutes / 15 minutes / 10 minutes
Substrate temperature	minimum 7°C up to maximum 40°C
Material temperature	15°C - 25°C
Maximum relative humidity of air	85 %
Dew point - substrate temperature	minimum +3°C above dew point
Curing time / foot traffic (7°C / 23°C / 30°C)	24 hours / 12 hours / 6 hours
All above values are approximate and may be used as a guideline for specifications	

Packaging:

on request

Colour:

traffic yellow (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 crystallization 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_{YS} (R_Z) ≥ 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:

Brush / roller: The temperature of the components must be at least 15°C. Component A and component B are delivered in separated containers. The components must be mixed homogeneously by using special equipment. Please consult us!

Application method:

Application	Brush / roller
<p>The components are delivered in separated containers in the correct mixing ratio. Mix and apply the coating evenly by using special equipment. The applied coating must be spread with suitable tools in the required layer thickness.</p> <p>Note! This coating system is to be applied only by trained and authorized employees / companies. Please consult us!</p>	<p>Recommended for small areas, repairs or to precoat edges, etc. Prior to application, the surface must be prepared by grinding or blasting PSa 2 ½ and cleaning. Care must be taken to apply sufficient material in order to achieve the specified film thickness. Repeat the coats until sufficient film thickness is obtained.</p>

In exposure to weathering, **AB-COR 950 SW Repair** tends to chalking and discolouring. In case of higher demand, we recommend to use **AB-PUR 720** or an **AB-COR** - topcoat (1 - 2 x).

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

Resistance:

Mechanical	Thermal	Chemical
<ul style="list-style-type: none"> • impact resistant • high abrasion resistant 	<ul style="list-style-type: none"> • wet heat up to +50°C continuously, short-term up to +70°C 	<ul style="list-style-type: none"> • industrial and marine conditions • water, seawater, brackish water • oil, fat, lubricants and fuels • diluted acids, alkalis • neutral salt solutions

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 950 SW Repair** is a (nearly) solvent free coating, it is common practice when used 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. 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 950 SW Repair; 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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