



AB-POLYMERCHEMIE GmbH  
Quality and Competence

# Check list

Corrosion protection

Employee: \_\_\_\_\_

Date: \_\_\_\_\_

## 1.) Request:

Company / name: \_\_\_\_\_

Street: \_\_\_\_\_

Postal code: \_\_\_\_\_ City: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Contact person: \_\_\_\_\_ E-Mail: \_\_\_\_\_

## 2.) Project:

tank

construction

description: \_\_\_\_\_ location: \_\_\_\_\_

size / m<sup>2</sup>: \_\_\_\_\_ condition: \_\_\_\_\_

coating site:  factory / stationary  construction site

application / use:  indoor areas  outdoor / weathering  insulated

action:  first coating  partial renovation  entire renewal

project range:  hydraulic engineering  shipbuilding industry  plant construction

power plant  pipeline construction  engineering

offshore structures  fuel- / petrochemistry  sugar industry

## 3.) Kind of object:

steel bridge(s)  floodgate(s)  sheet pile wall(s)  weir(s) / culvert(s)

steel tower(s)  steel construction  cathodic protection  pipe(s)

oil separator  biogas plant  fuel tank(s)  ballast tank(s)

water tank(s)  sprinkler system tank  other: \_\_\_\_\_

Year of construction: \_\_\_\_\_

Last renovation / maintenance: \_\_\_\_\_

## 4.) Interior tank coating:

insulated tank  yes  no  $\Delta T$  - stability  yes  no

antistatic  yes  no porosity test  yes  no

temperature of medium: \_\_\_\_\_ °C up to \_\_\_\_\_ °C

## 5.) Substrate:

steel / iron  cast iron  zinc  aluminium

copper  stainless steel  stainless steel / V4A  old coating

epoxy (EP)  polyurethane (PU)  alkyd resin (AK)  acrylic resin (AY)

bitumen  vinyl chloride copolymers (PVC)

other: \_\_\_\_\_

## 6.) Surface:

uncoated  coated  thermally sprayed  hot zinc dipped

notes: \_\_\_\_\_



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**7.) Surface character:**

- rust and mill scale
- salts, dust, oils, fats, waxes
- old coatings, rusty
- old, metallic coatings
- soldering flux (galvanised steel)
- zinc corrosion / oxidation product
- delamination
- other: \_\_\_\_\_

scattered	numerous	%	all-over	photo
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
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<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

**8.) Atmospheric stresses:**

corrosivity categories  
DIN EN ISO 12944-2

<input type="checkbox"/> <b>C2</b> low	<input type="checkbox"/> <b>C3</b> medium	<input type="checkbox"/> <b>C4</b> high	<input type="checkbox"/> <b>C5-I</b> (industrial) very high	<input type="checkbox"/> <b>C5-M</b> (marine) very high
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hydraulic engineering / BAW  
categories for water and soil

<input type="checkbox"/> <b>Im 1</b> fresh water	<input type="checkbox"/> <b>Im 2</b> sea or brackish water	<input type="checkbox"/> <b>Im 3</b> soil
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abrasion / mechanical  
(connected with water)

<input type="checkbox"/> <b>weak</b>	<input type="checkbox"/> <b>moderate</b>	<input type="checkbox"/> <b>severe</b>
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**9.) Chemical stresses:**

- gasoline
- fuel oil
- crude oil
- biodiesel
- ethanol
- water
- condensate
- inorganic acids\*
- organic acids\*
- alkalis\*
- solvents\*
- detergents\*
- pH - value \_\_\_\_\_

high	low	concentration %	temperature °C	exposure time (h)
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			
<input type="checkbox"/>	<input type="checkbox"/>			

other /\*designation: \_\_\_\_\_

- UV - radiation
- frost / de-icing salt change
- wetness
- thermal stress
- ΔT - stability
- other: \_\_\_\_\_

bacterial stress by: \_\_\_\_\_

radiation exposure by: \_\_\_\_\_

yes  no  constant  temporary

yes  no  constant  changing

temperature of \_\_\_\_\_ °C up to \_\_\_\_\_ °C

notes: \_\_\_\_\_



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**10.) Surface preparation:**

- blast-cleaning     high-pressure water jetting > 800 bar     grinding  
 CO<sub>2</sub> - blasting     low-pressure water jetting > 250 bar     hand and tool cleaning  
 flame cleaning     other: \_\_\_\_\_

**11.) Cleanliness / surface preparation grades:**

blast-cleaning		hand and tool cleaning			water jetting		sweep-blasting	washing
<input type="checkbox"/> Sa 2 ½	<input type="checkbox"/> Sa 3	<input type="checkbox"/> St 2	<input type="checkbox"/> St 3	<input type="checkbox"/> PMa	<input type="checkbox"/> DW 1	<input type="checkbox"/> DW 2	<input type="checkbox"/>	<input type="checkbox"/>

**12.) Regulations:**

- BetrSichV (VbF)     DIBt (TRbF)     ZTV-W     TL/TP-KOR     other

notes: \_\_\_\_\_

**System suggestion**

**13.) Surface preparation:**

- remove welding beads / plane welded seams and welded joint overlappings  
 blast-cleaning     high-pressure water jetting > 800 bar     CO<sub>2</sub> - blasting  
 flame cleaning     low-pressure water jetting > 250 bar     grinding  
 hand and tool cleaning    other: \_\_\_\_\_

**14.) Surface check:**

- roughness:     > 50 µm     yes     no  
 chloride check:     „Bresle - test“     yes     no

notes: \_\_\_\_\_

**15.) Coating system:**

**action:**

- base coat  
 intermediate coat  
 topcoat  
 UV - topcoat

product name	yes	no	consumption g/m <sup>2</sup>	dry film thickness
	<input type="checkbox"/>	<input type="checkbox"/>		µm
	<input type="checkbox"/>	<input type="checkbox"/>		µm
	<input type="checkbox"/>	<input type="checkbox"/>		µm
	<input type="checkbox"/>	<input type="checkbox"/>		µm

**Collection of data:**

Prepared by: \_\_\_\_\_  
 Consultant / Company: \_\_\_\_\_  
 Contact person: \_\_\_\_\_  
 Consultant / Signature: \_\_\_\_\_