



WEICON

# APPLICATIONS AND PRODUCTS V



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V 1.25



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# THE RIGHT SOLUTION FOR YOUR APPLICATION

We don't just sell products, we provide solutions – worldwide. Our company has branches on every continent and partners in over 120 countries. WEICON products support a wide range of applications across the globe and play a key role in numerous industrial sectors.

From ambulance manufacturing to hydroelectric power, shipbuilding, the paper industry, food production or cement works – our products offer the right solution in every sector.

Over the next 50 pages, we present fascinating international application examples, providing insights into the tremendous versatility of our chemical-technical specialty products.



## Bonding of a drainage shaft cover made of PE



### DESCRIPTION

- ▶ the mounting holes were close to the edge, therefore mechanical anchors were not used (risk of material failure)
- ▶ fastening with WEICON Flex 310 M® Classic and WEICON Activating Cleaner gives the drainage shaft cover a secure hold



#### Flex 310 M® Classic

▶ 310 ml 10002576 white	▶ 310 ml 10010026 grey	▶ 310 ml 10010024 black
▶ 200 ml 10057238 presspack	▶ 200 ml 10057240 presspack	▶ 200 ml 10057245 presspack

### Advantages of our solution:

- ▶ simple, full-surface force-fit installation
- ▶ Activating Cleaner improves both adhesion and cleaning; adhesion to low-energy plastics is improved



#### Activating Cleaner

▶ 400 ml 10062859
----------------------



## Triple coating of chutes



### DESCRIPTION

- ▶ due to the extreme exposure to salt solution/salt slurry at 100 - 120 °C, a total of three layers were applied (layer thickness approx. 1 mm)
- ▶ first WEICON GL-S as a control layer
- ▶ then two coats of WEICON Ceramic HC 220 for long-term protection
- ▶ 8 kg of WEICON GL-S and 20 kg of WEICON Ceramic HC 220 were used



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON GL-S

- ▶ 0.2 kg  
10060361
- ▶ 0.5 kg  
10060362
- ▶ 2.0 kg  
10060363

### Advantages of our solution:

- ▶ preservation of the components
- ▶ simple and cost-effective maintenance



#### WEICON Ceramic HC 220

- ▶ 0.2 kg  
10060702
- ▶ 0.5 kg  
10060705
- ▶ 2.0 kg  
10060707



## Coating of a pipe subjected to aggressive substances flowing through it



### DESCRIPTION

- ▶ the pipe is used in the recycling industry and is increasingly subject to abrasive wear due to the aggressive substances flowing through it
- ▶ clean with WEICON Cleaner Spray S
- ▶ sand the surface with an angle grinder
- ▶ clean again with WEICON Cleaner Spray S
- ▶ work WEICON HP thoroughly into the surface as an adhesive layer using a spatula
- ▶ apply WEICON WP as a wear layer
- ▶ compress and smooth the surface with WEICON Cleaner Spray S
- ▶ apply WEICON Ceramic BL as a topcoat and grinding layer



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON HP

- ▶ 0.2 kg  
10054393
- ▶ 0.5 kg  
10054003
- ▶ 2.0 kg  
10054004



#### WEICON WP

- ▶ 0.2 kg  
10054399
- ▶ 2.0 kg  
10032320
- ▶ 10.0 kg  
10032939



#### WEICON Ceramic BL

- ▶ 0.2 kg  
10054394
- ▶ 0.5 kg  
10000093
- ▶ 2.0 kg  
10005233

### Advantages of our solution:

- ▶ long-term alternative to temporary welding
- ▶ simple and cost-effective maintenance



## Repair of a stripped M16 thread on the coupling element of an electric drive



### DESCRIPTION

- ▶ a quick repair was required on an M16 thread that had been repaired with a Heli-Coil insert
- ▶ the thread was drilled out
- ▶ to achieve better adhesion of the Plastic Metal to the surface, an M22 thread was cut and then heated
- ▶ WEICON HB 300 was applied to the drilling hole
- ▶ after curing, the desired M16 thread was cut



#### WEICON HB 300

- |                      |                      |                      |
|----------------------|----------------------|----------------------|
| ▶ 0.2 kg<br>10004472 | ▶ 0.5 kg<br>10001084 | ▶ 1.0 kg<br>10000099 |
|----------------------|----------------------|----------------------|

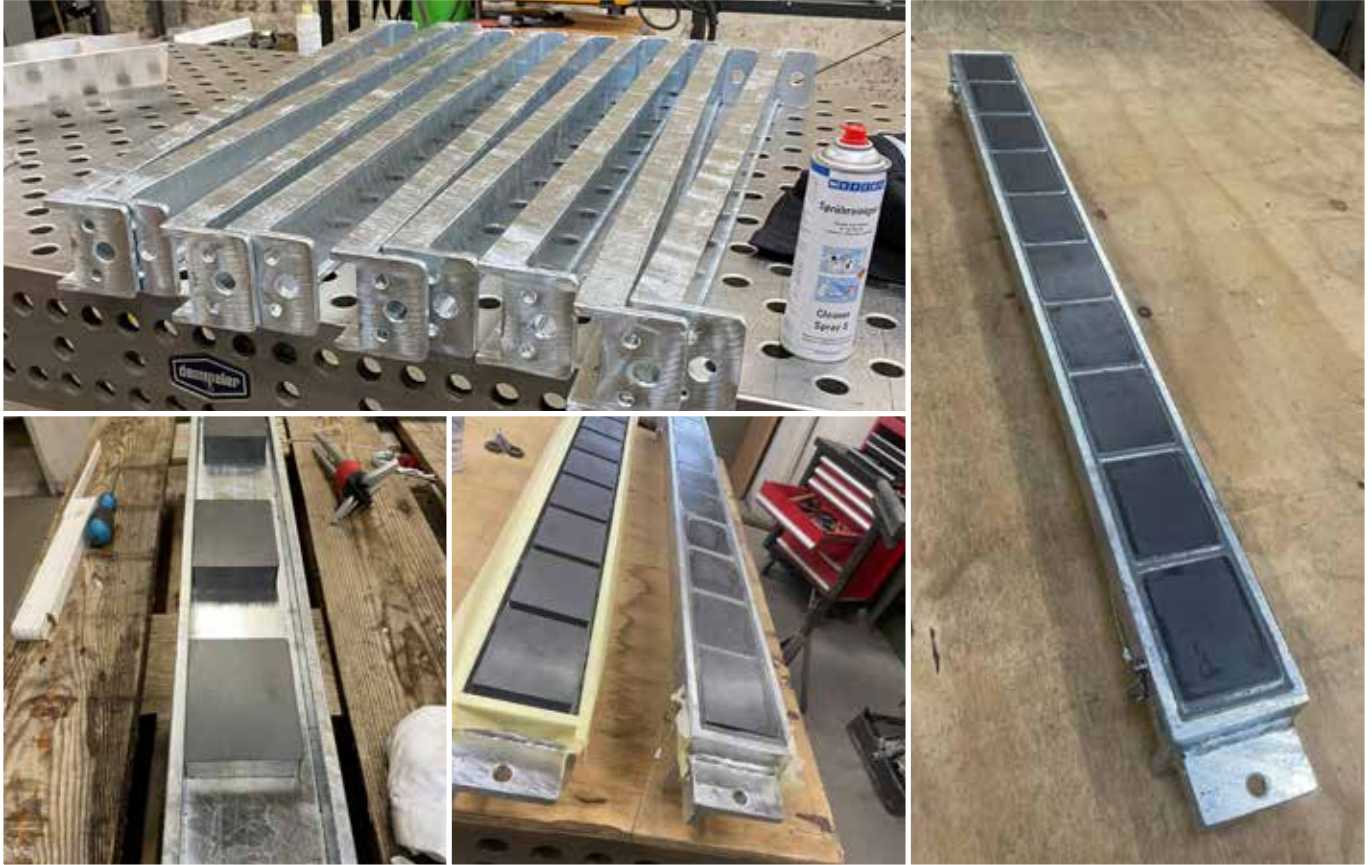


### Advantages of our solution:

- ▶ alternative, cost-effective maintenance and repair



## Fixation of magnetic holders in U-profiles



### DESCRIPTION

- ▶ potting with WEICON CBC to fix magnetic holders in U-profiles
- ▶ ten magnets were placed in each of the profiles
- ▶ the profiles serve as mounts for oil booms on ships



### WEICON CBC Chocking Backing Compound



▶ 0.5 kg 10064790	▶ 3.0 kg (2.0 litres) 10045020	▶ 10.0 kg (6.6 litres) 10045019
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### Advantages of our solution:

- ▶ no mechanical fastening (no drilling)
- ▶ low viscosity, optimised for easy flow
- ▶ simple production



## Thread seal for pump pipes



### DESCRIPTION

- ▶ cleaning of the threaded assemblies with WEICON Cleaner Spray S
- ▶ WEICONLOCK® AN 305-77 reduces the application time by 75 % compared to the conventional method with hemp
- ▶ after curing of WEICONLOCK® AN 305-77, a pressure test was carried out, during which the required pressure specification of 4 bar for the assembly was achieved



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### AN 305-77



Nonfood Compounds  
Program Listed S2  
Registration 159910

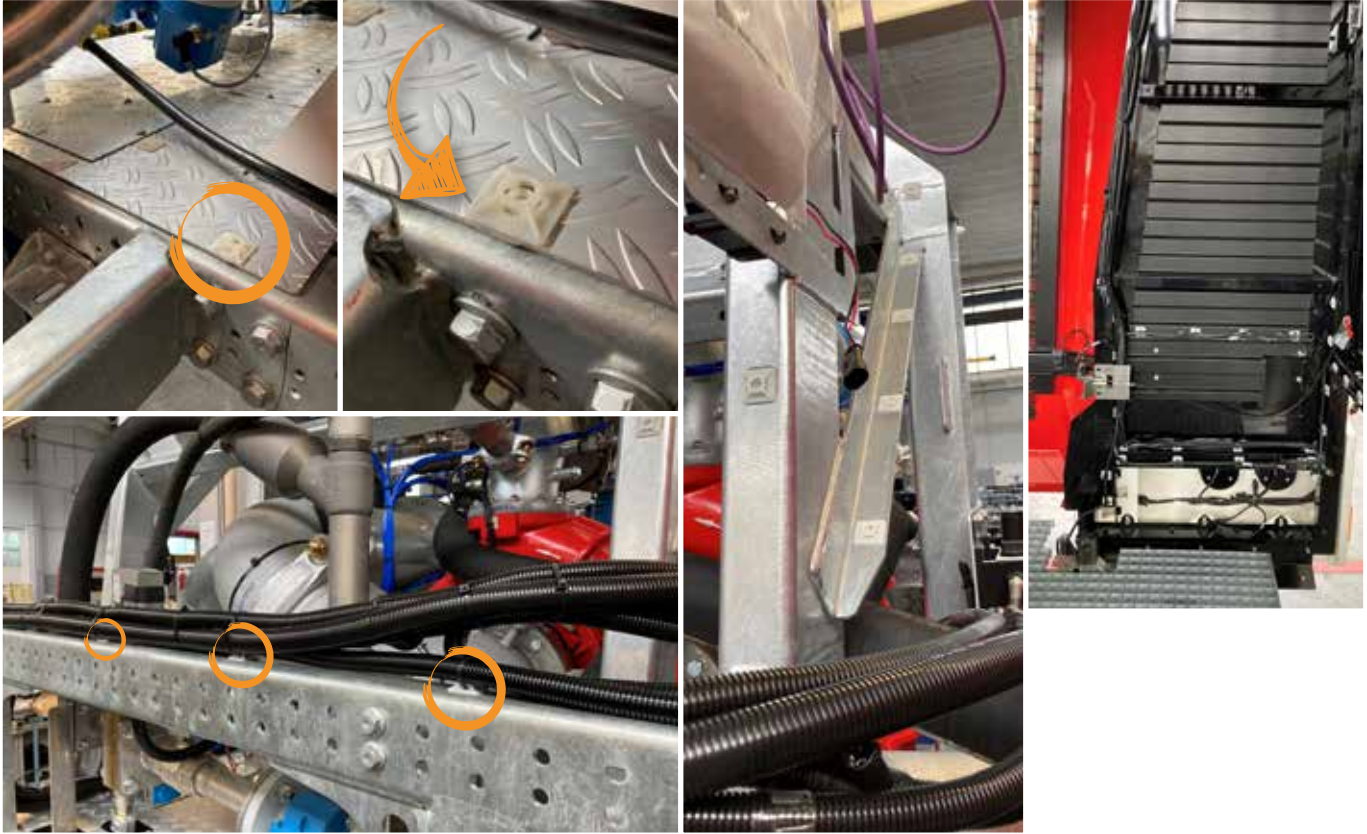
- ▶ 50 ml  
10019949
- ▶ 200 ml  
10020011
- ▶ 300 ml  
10034148

### Advantages of our solution:

- ▶ increased production output by reducing assembly time compared to the previous method
- ▶ easy assembly



## Bonding of polycarbonate brackets for cable harnesses in vehicle construction



### DESCRIPTION

- ▶ bonding of polycarbonate brackets to various metals with different surface finishes (hot-dip galvanised, wet-painted, powder-coated)
- ▶ brackets in the underbody of fire engines are used to attach various cable harnesses
- ▶ application with WEICON RK-7000 (wide adhesion spectrum for various surfaces and fast curing time to match the cycle time)



#### Surface Cleaner

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



#### Easy-Mix RK-7000

- ▶ 50 g 10018563

#### Quadro Mixing Nozzle A

- 10005236



### Advantages of our solution:

- ▶ compliance with the specified cycle time
- ▶ excellent adhesion to various surfaces (hot-dip galvanised, wet-painted, powder-coated) in combination with the plastic brackets (PC)

## Bonding in glass partition wall systems



### DESCRIPTION

- ▶ the adhesive is used for bonding the glass edges within the door frame
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ bonding with WEICON RK-7100 black



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### Easy-Mix RK-7100

- ▶ 50 g  
10030534  
off-white, milky
- ▶ 50 g  
10051232  
black

#### Quadro Mixing Nozzle A

- 10005236

 Advantages of our solution:

- ▶ black adhesive with high strength (design)



## Repair of a pipeline with a diameter of 800 mm in a hydroelectric power station



### DESCRIPTION

- ▶ the surfaces were prepared by roughening them with sandpaper
- ▶ application of WEICON Rust Converter for corroded surfaces
- ▶ the larger holes were closed using a flexible metal mesh, which was fixed in place with WEICON HB 300 and sealed with WEICON A
- ▶ smaller holes were closed with WEICON Repair Stick Multi-Purpose and WEICON Repair-Tape (WEICON Pipe Repair-Kit)
- ▶ further micro-holes and cracks were closed with WEICON B
- ▶ finally, the entire pipe was coated with an additional layer of WEICON B
- ▶ standard flow rate 1700 l/s



#### Rust Converter

▶ 400 ml  
10047458



#### WEICON A

▶ 0.2 kg 10054381    ▶ 0.5 kg 10000003    ▶ 2.0 kg 10000006



#### WEICON HB 300

▶ 0.2 kg 10004472    ▶ 0.5 kg 10001084    ▶ 1.0 kg 10000099



#### WEICON B

▶ 0.2 kg 10054384    ▶ 0.5 kg 10000020    ▶ 2.0 kg 10000023



#### WEICON Pipe Repair-Kit

▶ 10 cm x 3.5 m 1005740 white  
▶ 12 cm x 10 m 10057026 white



### Advantages of our solution:

- ▶ cost-effective repair
- ▶ simple application

## Repair of an oil tank



### DESCRIPTION

- cracks and damage were found on the outside of an oil tank
- no welding work could be carried out due to the flammable contents
- cleaning with WEICON Cleaner Spray S
- neutralisation of rust with WEICON Rust Converter
- prior to the repair, the application area of WEICON A was masked off with adhesive tape
- application of WEICON A
- curing after six hours; final hardness achieved after 24 hours



#### Cleaner Spray S

- 500 ml  
10000147



#### Rust Converter

- 400 ml  
10047458



#### WEICON A

- 0.2 kg  
10054381
- 0.5 kg  
10000003
- 2.0 kg  
10000006

 *Advantages of our solution:*

- temporary, professional emergency repair



## Repair of a water suction filter in the paper industry



### DESCRIPTION

- ▶ repair of turning damage (-5 mm) on a bronze suction filter with a filter diameter of 850 mm
- ▶ 1,800 wooden pins were inserted into the suction holes (with protrusion)
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON A
- ▶ renewal of approx. 1,800 suction holes by drilling



#### Cleaner Spray S

- ▶ 500 ml
- 10000147



#### WEICON A

- ▶ 0.2 kg
- ▶ 0.5 kg
- ▶ 2.0 kg
- 10054381
- 10000003
- 10000006

### Advantages of our solution:

- ▶ no new purchase necessary
- ▶ repair at low cost

## Wear protection coating on the engines of wastewater pumps



### DESCRIPTION

- ▶ before applying the epoxy resin systems, the limestone layers and other materials that form during the operation of these engines were removed
- ▶ sandblasting
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON Rust Converter in several steps
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ two coats of WEICON GL
- ▶ two coats of WEICON Ceramic HC 220



#### Cleaner Spray S

▶ 500 ml  
10000147



#### WEICON GL

▶ 0.2 kg 10057791    ▶ 0.5 kg 10057714    ▶ 1.0 kg 10057800



#### WEICON Ceramic HC 220

▶ 0.2 kg 10060702    ▶ 0.5 kg 10060705    ▶ 2.0 kg 10060707

 *Advantages of our solution:*

- ▶ renewal of wear protection



## Bonding of ceramic industrial tiles



### DESCRIPTION

- ▶ to ensure adhesion between WEICON HP and the substrate, the surface was cleaned and polished
- ▶ contaminants and old adhesive were removed prior to the bonding process
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON HP on both sides — on the substrate and on the aluminium oxide tiles
- ▶ the aluminium oxide tiles were positioned and bonded to the substrate
- ▶ the joints between the aluminium oxide tiles were filled with WEICON Fire Safe



#### Cleaner Spray S

▶ 500 ml  
10000147



#### WEICON HP

▶ 0.2 kg 10054393    ▶ 0.5 kg 10054003    ▶ 2.0 kg 10054004



### Advantages of our solution:

- ▶ operation possible again after just 24 hours
- ▶ securing the wear protection with powerful adhesion



#### WEICON Fire Safe

▶ 0.2 kg 10062919    ▶ 0.5 kg 10062920    ▶ 1 kg 10062921

## Coating of a pipe bend



### DESCRIPTION

- ▶ the pipe bends have a wall thickness of approx. 4 mm and need to be replaced after 3–4 months due to wear caused by the transport of recycled material (around 100 of them throughout the entire plant)
- ▶ surface preparation by grinding off the paint layer with an angle grinder
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON HP as an adhesive layer
- ▶ application of WEICON WP using a 3 mm and 7 mm notched trowel (wet-on-wet method) to ensure the required layer thickness
- ▶ smoothing/modelling of WEICON WP with WEICON Industrial Cleaner



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON HP

- ▶ 0.2 kg  
10054393
- ▶ 0.5 kg  
10054003
- ▶ 2.0 kg  
10054004



#### WEICON WP

- ▶ 0.2 kg  
10054399
- ▶ 2.0 kg  
10032320
- ▶ 10.0 kg  
10032939



#### Industrial Cleaner

- ▶ 500 ml  
10055297



### Advantages of our solution:

- ▶ protection of base material
- ▶ extension of maintenance interval



## Repair of the top of a cyclone



### DESCRIPTION

- ▶ in a silicon dioxide plant for ceramics, cyclones are used to separate silicon dioxide particles by size and density
- ▶ due to the constant movement of abrasive particles of varying sizes, wear and corrosion in these machines are extremely severe
- ▶ the top had an area of 14 m<sup>2</sup>
- ▶ mechanical cleaning and removal of excess "dust" and solid silicon dioxide particles, followed by cleaning with WEICON Cleaner Spray S
- ▶ WEICON HP was first applied as an adhesive layer
- ▶ final coat with WEICON WP (approx. 3 mm thick)



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON HP

- ▶ 0.2 kg  
10054393
- ▶ 0.5 kg  
10054003
- ▶ 2.0 kg  
10054004



#### WEICON WP

- ▶ 0.2 kg  
10054399
- ▶ 2.0 kg  
10032320
- ▶ 10.0 kg  
10032939



### Advantages of our solution:

- ▶ no significant wear observed after 2-3 months

## Repair of the housing of an olive oil centrifugal separator



### DESCRIPTION

- ▶ repair of the aluminium lid of a separator used to process olive oil
- ▶ corrosion and wear due to regular cleaning with a 4 % caustic soda solution
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON HB 300 (inside repair) using a wire mesh
- ▶ application of WEICON HP and Glass Fibre Cloth Tape to repair the hole
- ▶ subsequent coating with WEICON Ceramic BL
- ▶ final coating with WEICON Ceramic HC 220



#### WEICON HB 300

- |          |          |          |
|----------|----------|----------|
| ▶ 0.2 kg | ▶ 0.5 kg | ▶ 1.0 kg |
| 10004472 | 10001084 | 10000099 |



#### WEICON HP

- |          |          |          |
|----------|----------|----------|
| ▶ 0.2 kg | ▶ 0.5 kg | ▶ 2.0 kg |
| 10054393 | 10054003 | 10054004 |



#### WEICON Ceramic BL

- |          |          |          |
|----------|----------|----------|
| ▶ 0.2 kg | ▶ 0.5 kg | ▶ 2.0 kg |
| 10054394 | 10000093 | 10005233 |



#### WEICON Ceramic HC 220

- |          |          |          |
|----------|----------|----------|
| ▶ 0.2 kg | ▶ 0.5 kg | ▶ 2.0 kg |
| 10060702 | 10060705 | 10060707 |

### Advantages of our solution:

- ▶ reliable repair of the existing component



## Bonding of the lighting system for a tram stop



### DESCRIPTION:

- ▶ preparation of the surface with WEICON Primer K 200
- ▶ bonding of ABS and painted steel with WEICON Easy-Mix PU-90



#### Easy-Mix PU-90

- ▶ 50 ml  
10031972



#### WEICON Primer K 200

- ▶ 250 ml  
10023567
- ▶ 25 ml  
10060609



### Advantages of our solution:

- ▶ the best fastening method from a technical and financial point of view
- ▶ rapid curing
- ▶ resistance to environmental influences

## Repair of a bulk goods conveyor system



### DESCRIPTION

- ▶ the conveyor belt was severely damaged, showing holes and cracks
- ▶ light grinding of the surface
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON 1C Primer G on the damaged area
- ▶ application of WEICON Urethane 85
- ▶ curing after 24 hours



#### Cleaner Spray S

- ▶ 500 ml
- 10000147



#### 1C Primer G

- ▶ 50 ml
- 10104191



#### Urethane 85

- ▶ 500 g
- ▶ 540 g
- 10057130
- 10057188
- Work package
- Cartridge



### Advantages of our solution:

- ▶ repair on site
- ▶ no disassembly necessary



## Repair of heat exchangers



### DESCRIPTION

- ▶ repair of small leaks on stainless steel heat exchangers
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ sealing with WEICON WL and WEICON Glass Fibre Cloth Tape



#### Cleaner Spray S

▶ 500 ml  
10000147



#### Glass Fibre Cloth Tape

10000913



#### WEICON WL

▶ 0.2 kg 10067876    ▶ 0.5 kg 10067882    ▶ 2.0 kg 10067887

 **Advantages of our solution:**

- ▶ repair on site with little effort

## Filling the gap on a rotor shaft in a gravel washing plant



### DESCRIPTION

- ▶ a 4 mm gap between the inner and outer shaft needed to be filled with WEICON WR, without air inclusions, to increase the shaft stability
- ▶ at intervals of one metre, threaded holes towards the gap were drilled in order to attach a hose with valve to them
- ▶ WEICON WR was pressed through the hose into the gap, until the top drill hole was reached
- ▶ after 24 hours, WEICON WR had completely cured



### WEICON WR

- |          |          |          |
|----------|----------|----------|
| ▶ 0.2 kg | ▶ 0.5 kg | ▶ 2.0 kg |
| 10054400 | 10000077 | 10000078 |

### Advantages of our solution:

- ▶ no need to purchase a costly replacement part for the system
- ▶ can be produced directly in the workshop

VIDEO





## Interior coating of the cladding of a bucket elevator in a salt mine



### DESCRIPTION

- ▶ more than 120 m<sup>2</sup> of steel surface were coated using the spray method with 120 kg of WEICON GL-S and WEICON Ceramic HC 220
- ▶ in the bucket elevator, salt is transported upwards over six levels
- ▶ the interior of the bucket elevator is lined with steel sheets, which had been corroded by salt dust due to a simple paint coating inside
- ▶ clean with WEICON Cleaner Spray S after sandblasting
- ▶ heat the resin component to approx. 50 °C, then mix
- ▶ apply a layer of WEICON GL-S
- ▶ apply a layer of WEICON Ceramic HC 220
- ▶ search for possible defects, followed by inspection of the layer thickness



#### Cleaner Spray S

- ▶ 500 ml
- 10000147



#### WEICON GL-S

- ▶ 0.2 kg 10060361
- ▶ 0.5 kg 10060362
- ▶ 2.0 kg 10060363



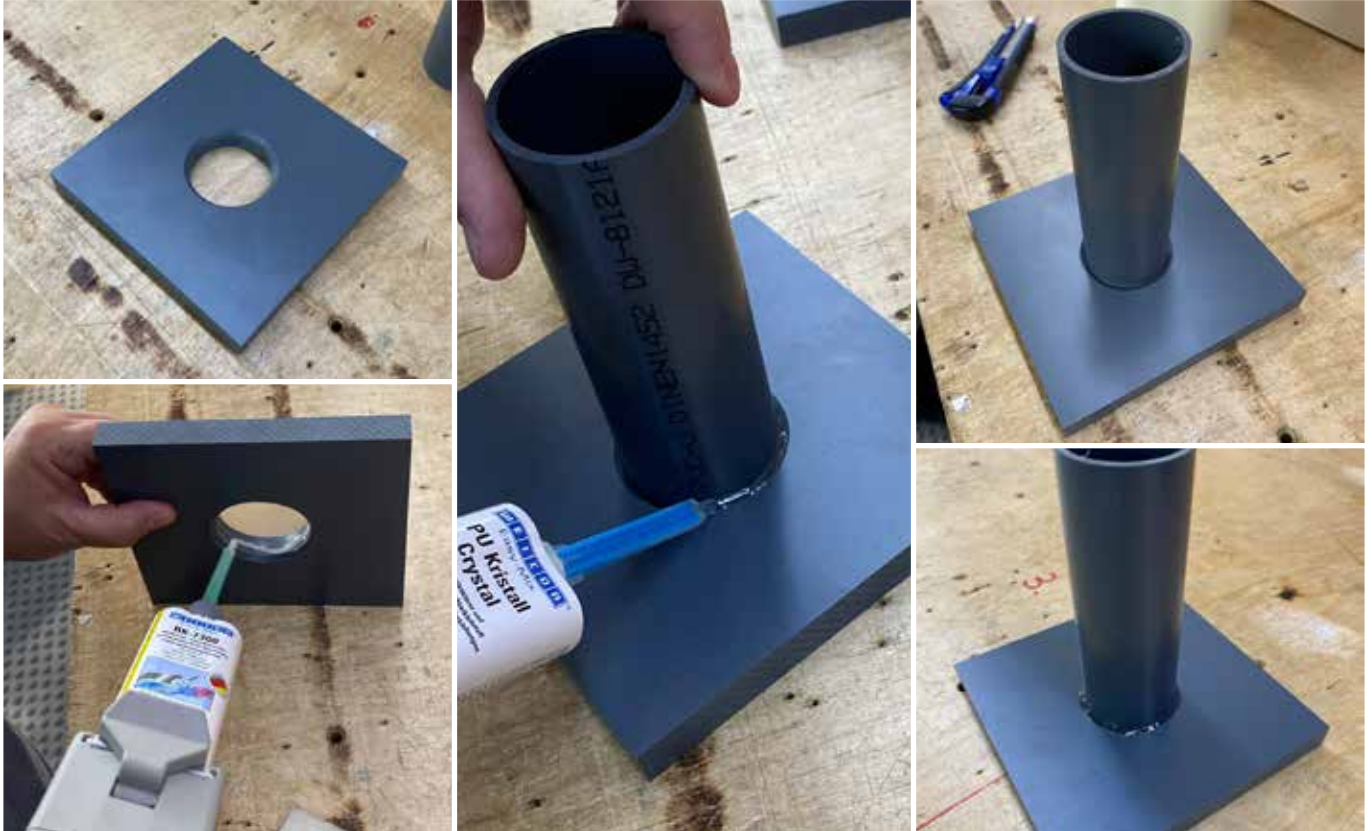
#### WEICON Ceramic HC 220

- ▶ 0.2 kg 10060702
- ▶ 0.5 kg 10060705
- ▶ 2.0 kg 10060707

### Advantages of our solution:

- ▶ increases the intervals between service maintenance
- ▶ the condition of the coating is visible through the control layer (first layer), improving maintenance monitoring

## Bonding of drains (PVC) for the saunas in a spa



### DESCRIPTION

- ▶ creation of drains (PVC) for the saunas in a spa
- ▶ the drains are located behind the tiles and were additionally sealed with epoxy
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ sanding and renewed cleaning of the components
- ▶ application of WEICON RK-7300 into the ring
- ▶ joining of the components
- ▶ after reaching handling strength, the gap was filled with WEICON PU Crystal



#### Cleaner Spray S

▶ 500 ml  
10000147



#### Easy-Mix RK-7300

▶ 50 g  
10047457

#### Quadro Mixing Nozzle B-System

10029793



#### Easy-Mix PU Crystal

▶ 50 ml  
10058022

#### Quadro Mixing Nozzle A-System

10005236

### Advantages of our solution:

- ▶ combination of different adhesive systems
- ▶ reliable production process for challenging conditions



## Production of controller housings



### DESCRIPTION

- ▶ after switching to PC/polycarbonate material, stress cracks occurred during the bonding of controller housings
- ▶ bonding of the brass screw fittings with WEICONLOCK® AN 301-70



**AN 301-70**

**NSF**

Certified to  
NSF/ANSI 61

▶ 20 ml

10026829

▶ 50 ml

10026826

▶ 200 ml

10026827



*Advantages of our solution:*

- ▶ lower acid content of the adhesive prevents corrosion-induced stress cracks

## Coating of the housing of a fire pump



### DESCRIPTION

- ▶ cleaning with WEICON Cleaner Spray S
- ▶ coating with WEICON HB 300
- ▶ coating with WEICON Ceramic BL
- ▶ coating with WEICON GL-S



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON HB 300

- ▶ 0.2 kg  
10004472
- ▶ 0.5 kg  
10001084
- ▶ 1.0 kg  
10000099



#### WEICON Ceramic BL

- ▶ 0.2 kg  
10054394
- ▶ 0.5 kg  
10000093
- ▶ 2.0 kg  
10005233



#### WEICON GL-S

- ▶ 0.2 kg  
10060361
- ▶ 0.5 kg  
10060362
- ▶ 2.0 kg  
10060363

 Advantages of our solution:

- ▶ cost-effective maintenance work, even on older pumps



## Repair of a bronze propeller shaft



### DESCRIPTION

- ▶ the shaft was turned down by 3 mm
- ▶ at the outer edges, tape was built up to approx. 5 mm to ensure an even application of the Plastic Metal
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON HB 300 with a brush to ensure strong adhesion and prevent the inclusion of air bubbles
- ▶ application of WEICON HB 300 using the Contour Spatula Flexy
- ▶ subsequently, the application was completed with the help of a metal plate
- ▶ turning to the desired initial dimension and sealing of the holes



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON HB 300

- ▶ 0.2 kg  
10004472
- ▶ 0.5 kg  
10001084
- ▶ 1.0 kg  
10000099



### Advantages of our solution:

- ▶ repair of various damage geometries on the original component

## Coating of jet nozzles on a ferry



### DESCRIPTION

- ▶ high-pressure water cleaning
- ▶ sandblasting
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON WL in a 2-layer system



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON WL

- ▶ 0.2 kg  
10067876
- ▶ 0.5 kg  
10067882
- ▶ 2.0 kg  
10067887

### Advantages of our solution:

- ▶ restoration of more complex components without a costly new purchase



## Coating of underwater exhaust outlets in shipbuilding

### DESCRIPTION

- ▶ exhaust outlets on naval vessels are positioned underwater to desulphurise the exhaust gases
- ▶ temperature of 180-200 °C
- ▶ Bresle test (salt concentration on the surface) and roughness measurement
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of a layer of WEICON Ceramic HC 220
- ▶ holiday test (pore/crack test) up to 500 µm
- ▶ application of a second layer of Ceramic HC 220 up to 800-1000 µm



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON Ceramic HC 220

- ▶ 0.2 kg  
10060702
- ▶ 0.5 kg  
10060705
- ▶ 2.0 kg  
10060707



### Advantages of our solution:

- ▶ reliable coating in high temperature applications

## Application of false eyelashes



### DESCRIPTION

- ▶ bonding with WEICON VA 30 Black, 5 g
- ▶ eyelashes made of mink, silk and other materials are dipped into a drop of WEICON VA 30 Black and inserted between the real eyelashes
- ▶ humidity controlled at 50-60 %
- ▶ application area 1:1 or volume technique (image below)



#### VA 30 Black

- |          |          |          |          |
|----------|----------|----------|----------|
| ▶ 12 g   | ▶ 30 g   | ▶ 60 g   | ▶ 500 g  |
| 10025827 | 10025824 | 10025829 | 10025987 |

### Advantages of our solution:

- ▶ optimal properties of the adhesive
- ▶ high resistance and elasticity



## Fitting of emergency catches on suspended monorails



### DESCRIPTION

- ▶ due to tolerances of several millimetres, WEICON WR acts as a fitting layer to enable a friction-locked installation of the emergency catch
- ▶ to allow for disassembly, WEICON WR is pressed onto a stainless steel sheet coated with WEICON Mould Release Agent F 1000 on the contact surface
- ▶ after curing, the base plate of the mould is removed and the emergency catch is mounted on the now flat surface
- ▶ the screw connections are sealed with WEICON Threadlocking Varnish yellow



#### Mould Release Agent Liquid F 1000

▶ 1 L	▶ 1 L
10026647	10026167



#### WEICON WR

▶ 0.2 kg	▶ 0.5 kg	▶ 2.0 kg
10054400	10000077	10000078



#### Threadlocking Varnish

▶ 30 g	▶ 60 g	<b>YELLOW</b> RAL 1021*
10038883	10047485	
▶ 30 g	▶ 60 g	<b>GREEN</b> RAL 6010*
10038884	10046906	
▶ 30 g	▶ 60 g	<b>RED</b> RAL 3000*
10038882	10047481	



### Advantages of our solution:

- ▶ precise and perfectly fitting installation of the emergency catch

\*corresponds approximately to the specified RAL colours

## Maintenance work on a water tank of the Polish Navy



### DESCRIPTION

- ▶ cleaning of the surface with WEICON Cleaner Spray S
- ▶ sanding and renewed cleaning
- ▶ application of WEICON Food Grade in multiple layers using a brush
- ▶ spraying was not possible due to the complexity of the installation space



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON Food Grade

- ▶ 0.2 kg  
10062864
- ▶ 0.5 kg  
10062869
- ▶ 2 kg  
10062875

### Advantages of our solution:

- ▶ costly reconstruction and servicing were successfully avoided
- ▶ allows for efficient repairs in the food sector



## Impeller repair in a cement factory



### DESCRIPTION

- ▶ the raw material had become deeply ingrained in the impeller blades
- ▶ the impeller had a total of 14 blades that needed to be repaired
- ▶ the surface was mechanically cleaned and sanded
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ primer, bonding agent: WEICON HP
- ▶ filling material: WEICON WPN
- ▶ top coat, smoothing layer: WEICON Ceramic HC 220
- ▶ for the success of the repair, it was essential that the surface be as smooth as possible
- ▶ all three products were applied wet-on-wet (pay attention to the layer curing times)
- ▶ after the complete repair, the impeller had to be balanced



#### Cleaner Spray S

- ▶ 500 ml
- 10000147



#### WEICON HP

- ▶ 0.2 kg 10054393
- ▶ 0.5 kg 10054003
- ▶ 2.0 kg 10054004



#### WEICON WPN

- ▶ 2.0 kg 10056868
- ▶ 13.62 kg 10050041



#### WEICON Ceramic HC 220

- ▶ 0.2 kg 10060702
- ▶ 0.5 kg 10060705
- ▶ 2.0 kg 10060707



### Advantages of our solution:

- ▶ optimised maintenance

## Repair of a discharge gate on a hopper



### DESCRIPTION

- ▶ during the production of concrete blocks, a component on a hopper was corroded and worn due to permanent contact with sand and cement mixture
- ▶ mechanical cleaning with bristle blaster
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of the first layer of WEICON GL, which compensates for wear and acts as a control layer
- ▶ application of WEICON Ceramic BL as top coat
- ▶ **TIP:** WEICON brushes provide a significantly better finish when applying Plastic Metal compared to conventional brushes



#### Cleaner Spray S

- ▶ 500 ml
- 10000147



#### WEICON Ceramic BL

- ▶ 0.2 kg 10054394
- ▶ 0.5 kg 10000093
- ▶ 2.0 kg 10005233



#### WEICON GL

- ▶ 0.2 kg 10057791
- ▶ 0.5 kg 10057714
- ▶ 1.0 kg 10057800



#### Brush 60, short, flat Plastic Metal

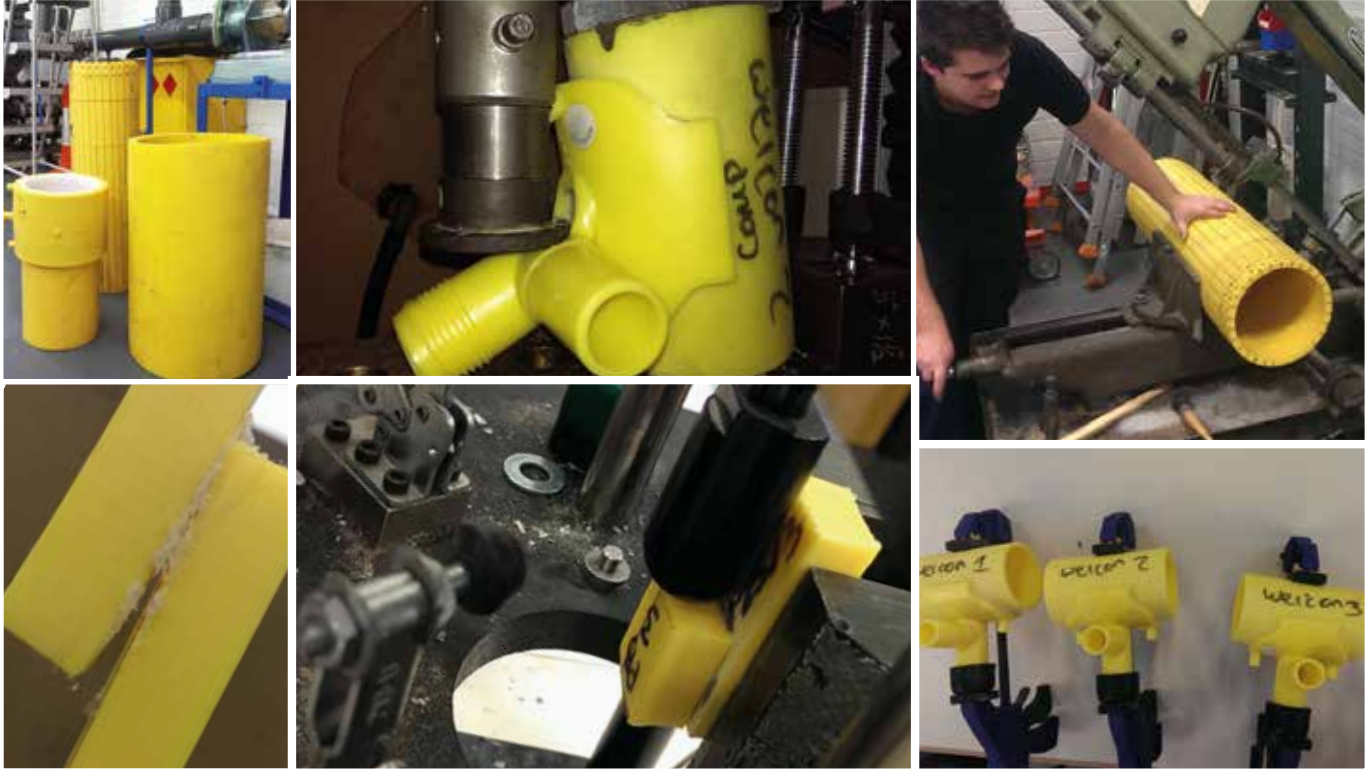
- 10068373

### Advantages of our solution:

- ▶ extension of service life
- ▶ protection of the base material



## Series of tests on bonding polyethylene gas pipes



### DESCRIPTION

- ▶ for the test series, sections of a standard natural gas pipe commonly used in road construction were fitted with a T-piece for the house connection
- ▶ testing was conducted in three trials:
  1. slow pressure increase to simulate, for example, loads from the surrounding soil (static pressure test)
  2. a weight was dropped freely onto the adhesive bond; this simulated the load caused by a spade strike during construction work (impact test)
  3. the gas tightness was tested



#### Easy-Mix PE-PP 45

- ▶ 45 ml
- 10057687
- nearly colourless, translucent

#### Dispenser D 50 10:1

10059295

#### Mixing Nozzle 10:1 B

10063196

#### Special slider

10023341

for adapting the Dispenser Easy-Mix D 50 to Easy-Mix PE-PP 45

### Advantages of our solution:

- ▶ an economically and technically attractive alternative to electric welding

## Maintenance work on the outlet base plate of a hopper in a mine



### DESCRIPTION

- ▶ sandblasting
- ▶ removal of residues from sandblasting (dust)
- ▶ cleaning of the surface (WEICON Cleaner S, WEICON Surface Cleaner)
- ▶ application of wear protection WEICON WP
- ▶ use of PE foil to compress and smooth out the surface



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### Surface Cleaner

- ▶ 150 ml  
10024317
- ▶ 400 ml  
10024313

### Advantages of our solution:

- ▶ maintenance period extended from three to a minimum of six months, effectively doubling the service interval
- ▶ the plate can be recoated once the wear protection layer has worn away
- ▶ protects the base material
- ▶ reduces system downtime



#### WEICON WP

- ▶ 0.2 kg  
10054399
- ▶ 2.0 kg  
10032320
- ▶ 10.0 kg  
10032939



## Repair of a wastewater pipe distribution system



### DESCRIPTION

- ▶ removal of flora and fauna
- ▶ sandblasting
- ▶ drilling of holes to prevent cracks
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ Repair-Stick Multi-Purpose with heat gun (to quickly stop running water)
- ▶ application of WEICON HP with Glass Fibre Cloth Tape
- ▶ Repair-Tape 12/100
- ▶ final coating with WEICON Ceramic BL



#### Cleaner Spray S

- ▶ 500 ml
- 10000147



Certified to  
NSF/ANSI 61  
Policy #1 USA



#### WEICON Pipe Repair-Kit

- ▶ 10 cm x 3.5 m ▶ 12 cm x 10 m
- 10055740 10057026
- white white



#### WEICON HP

- ▶ 0.2 kg ▶ 0.5 kg ▶ 2.0 kg
- 10054393 10054003 10054004



### Advantages of our solution:

- ▶ permanent, sustainable repair
- ▶ protection of the base material against corrosion



#### WEICON Ceramic BL

- ▶ 0.2 kg ▶ 0.5 kg ▶ 2.0 kg
- 10054394 10000093 10005233

## Repair of a fire extinguishing pipe



### DESCRIPTION

- ▶ material of the pipe: GRE, diameter 300 mm
- ▶ pressure: 16 bar
- ▶ shutting off water that is still flowing
- ▶ Repair Stick Multi-Purpose, WEICON SF, heat gun
- ▶ sanding
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ WEICON HP + Glass Fibre Cloth Tape
- ▶ Repair Tape 12/100, 10/35
- ▶ WEICON GL-S



### Repair Stick Multi-Purpose

- ▶ 57 g 10053992
- ▶ 115 g 10053995



### WEICON SF

- ▶ 0.2 kg 10009769
- ▶ 0.5 kg 10000071
- ▶ 2.0 kg 10000072



### WEICON HP

- ▶ 0.2 kg 10054393
- ▶ 0.5 kg 10054003
- ▶ 2.0 kg 10054004



### Repair-Tape

- ▶ 10 cm x 3.5 m 10057455 white
- ▶ 12 cm x 10 m 10057459 white



### WEICON GL-S

- ▶ 0.2 kg 10060361
- ▶ 0.5 kg 10060362
- ▶ 2.0 kg 10060363

### Advantages of our solution:

- ▶ long-lasting wear protection
- ▶ protection of the base material against corrosion



## Car body conversion / vehicle construction



### DESCRIPTION

- ▶ the company specialises in conversions, including custom vehicle construction, hearses, caravans, accident-damaged vehicles and classic cars
- ▶ supports/floors, superstructures, panelling etc. are bonded with WEICON Flex 310 M® Classic or WEICON Speedflex
- ▶ large-area linings of felt/carpets are bonded with WEICON Adhesive Spray extra strong
- ▶ surface preparation with WEICON Cleaner Spray S, WEICON Rust Converter or WEICON Activating Cleaner
- ▶ WEICON Multi-Foam is used for the finish before delivery



#### Flex 310 M® Classic



- |                               |                              |                               |
|-------------------------------|------------------------------|-------------------------------|
| ▶ 310 ml<br>10002576<br>white | ▶ 310 ml<br>10010026<br>grey | ▶ 310 ml<br>10010024<br>black |
|-------------------------------|------------------------------|-------------------------------|

#### Speed-Flex®



- ▶ 310 ml  
10019653  
grey

#### Adhesive Spray extra strong

- ▶ 500 ml  
10024662

#### Rust Converter

- ▶ 500 ml  
10047458

#### Multi-Foam

- |                      |                      |
|----------------------|----------------------|
| ▶ 150 ml<br>10063243 | ▶ 400 ml<br>10000144 |
|----------------------|----------------------|



#### Activating Cleaner

- ▶ 400 ml  
10062859

#### Cleaner Spray S

- ▶ 500 ml  
10000147

### Advantages of our solution:

- ▶ versatile applications
- ▶ efficient bonding of a wide variety of materials

## Balancing rotor packs for electric motors



### DESCRIPTION:

- ▶ on the sides of the rotor pack, on the copper coils, the putty is applied in measured portions
- ▶ balancing is carried out before curing to compensate for any imbalances



### Balancing Putty

- |          |          |          |
|----------|----------|----------|
| ▶ 400 g  | ▶ 1.0 kg | ▶ 5.0 kg |
| 10000129 | 10000113 | 10000114 |

### Advantages of our solution:

- ▶ immediate initial adhesion
- ▶ positioning and dosing of the balancing mass during the balancing process is possible



## Coating of a Pelton water turbine



### DESCRIPTION

- ▶ the runner wheels of a Pelton water turbine showed visible wear due to abrasion after several years of operation
- ▶ before applying the coating, the turbine was first sandblasted and thoroughly cleaned with our WEICON Cleaner Spray S
- ▶ the cavities of the runner wheels were filled with WEICON WR2
- ▶ finally, a double coating with WEICON Ceramic BL was applied



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON WR2

- ▶ 0.2 kg  
10054401
- ▶ 0.5 kg  
10000087
- ▶ 2.0 kg  
10000088



#### WEICON Ceramic BL

- ▶ 0.2 kg  
10054394
- ▶ 0.5 kg  
10000093
- ▶ 2.0 kg  
10005233

### Advantages of our solution:

- ▶ cost-effective repair and maintenance
- ▶ extension of service life

## Restoration of the Karl Marx monument



### DESCRIPTION

- ▶ restoration of a 400 m<sup>2</sup> inscription panel on a monument
- ▶ the panel is made of cast aluminium and had to be refurbished due to weathering and poor quality
- ▶ WEICON C and Glass Fibre Cloth Tape were used on the back of the 174 individual panels to stabilise the entire structure
- ▶ on the front side, WEICON F and WEICON Repair Stick Aluminium were used to restore the contours
- ▶ to closely match the colour of the patina, drilling dust was added to our products
- ▶ additionally, the bushings for hanging the panels were re-bonded and secured with WEICONLOCK® AN 302-72

#### Cleaner Spray S

▶ 500 ml  
10000147

#### WEICON C

▶ 0.2 kg 10051209 ▶ 0.5 kg 10000032 ▶ 2.0 kg 10000033

#### WEICON F

▶ 0.2 kg 10054387 ▶ 0.5 kg 10000039 ▶ 2.0 kg 10000041

#### Repair Stick Aluminium

▶ 57 g 10010246 ▶ 115 g 10007711

#### AN 302-72

▶ 10 ml 10030476 ▶ 20 ml 10016421 ▶ 50 ml 10017884  
▶ 200 ml 10019978

### Advantages of our solution:

- ▶ durable repairs
- ▶ excellent restoration of surface quality
- ▶ user-friendly handling and application



## Tail shaft coating



### DESCRIPTION

- ▶ preparation of the surface: sandblasting SA 2.5 MG
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ WEICON A for rebuilding the surface
- ▶ WEICON Glass Fibre Cloth Tape in combination with WEICON WL as top coat



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### Glass Fibre Cloth Tape

- 10000913



#### WEICON WL

- ▶ 0.2 kg  
10067876
- ▶ 0.5 kg  
10067882
- ▶ 2.0 kg  
10067887

### Advantages of our solution:

- ▶ no expensive new purchase necessary
- ▶ return to full functionality

## Levelling of a screw conveyor in a waste incineration plant



### DESCRIPTION

- ▶ alignment of the transitions from the steel base body to the sealing protection (aluminium oxide)
- ▶ coating with WEICON HB 300



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON HB 300

- ▶ 0.2 kg  
10004472
- ▶ 0.5 kg  
10001084
- ▶ 1.0 kg  
10000099

### Advantages of our solution:

- ▶ securing and increasing the conveying capacity
- ▶ no clogging of the system due to fibre residues



## Repair of drive wheels



### DESCRIPTION

- ▶ manufacture of towing devices for water sports
- ▶ repair of aluminium drive wheels (Ø 820 mm)
- ▶ removal of the oxide layer on the aluminium
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ coating with WEICON F
- ▶ after the repair, the PE wear protection (red) is pressed onto the rope



#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### WEICON F

- ▶ 0.2 kg  
10054387
- ▶ 0.5 kg  
10000039
- ▶ 2.0 kg  
10000041

### Advantages of our solution:

- ▶ restoration of the rope guide
- ▶ cost-effective repair
- ▶ no new purchase necessary

## Rust removal from plates on gas tanks



### DESCRIPTION

- ▶ the legibility of the signs was severely impaired by rust
- ▶ WEICON Rust Remover Gel was applied generously for maximum effect and covered with foil to prevent drying out



### Rust Remover Gel

- ▶ 1 L 10101908
- ▶ 5 L 10101905



### Advantages of our solution:

- ▶ improved legibility
- ▶ restoration of safety-relevant components
- ▶ rust removal on site without mechanical impact (hazardous area)



## Repair of a drive shaft



### DESCRIPTION:

- ▶ cleaning with WEICON Cleaner Spray S
- ▶ coating with WEICON HB 300
- ▶ material removal to undersize: 3 mm
- ▶ build-up to 5 mm
- ▶ oversize = 2 mm
- ▶ machining removal to nominal/original dimension



#### Cleaner Spray S

- ▶ 500 ml
- 10000147



#### WEICON HB 300



- ▶ 0.2 kg
- ▶ 0.5 kg
- ▶ 1.0 kg
- 10004472
- 10001084
- 10000099

### Advantages of our solution:

- ▶ no new purchase necessary
- ▶ cost-effective repair

## Bonding of grinding stones



### DESCRIPTION:

- ▶ after numerous internal tests, the decision was made in favour of our epoxy resin adhesive WEICON Easy-Mix S 50
- ▶ the decisive factors were the pot life and the impressive results achieved in these and other tests:
  - steel mandrel
  - silicon carbide grinding stone
  - internal cylindrical grinding



Easy-Mix S 50

▶ 50 ml  
10005230

### Advantages of our solution:

- ▶ transparent bonding with high strength and temperature resistance



## Manufacturing of ambulances



### DESCRIPTION:

- ▶ in the manufacturing of ambulances, materials such as aluminium, stainless steel, painted steel and ABS plastic were bonded
- ▶ WEICON Surface Cleaner and WEICON Easy-Mix RK-7100 black were used to bond the switch panel



#### Surface Cleaner

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



#### Easy-Mix RK-7100

- ▶ 50 g 10030534 off-white, milky
- ▶ 50 g 10051232 black

### Advantages of our solution:

- ▶ bonding of various materials
- ▶ flexibility in the design and manufacture of the vehicle
- ▶ vibration damping and noise reduction



## DESCRIPTION:

- ▶ WEICON Flex 310 M® Classic in various colours was used for bonding components
- ▶ WEICON Flex 310 M® Stainless Steel was used to seal joints
- ▶ WEICON Activating Cleaner was used to prepare the surface before applying Flex 310 M Classic and Flex 310 M Stainless Steel



### Activating Cleaner

- ▶ 400 ml  
10062859



### Flex 310 M® Classic



- |                                   |                                   |                                   |
|-----------------------------------|-----------------------------------|-----------------------------------|
| ▶ 310 ml<br>10002576<br>white     | ▶ 310 ml<br>10010026<br>grey      | ▶ 310 ml<br>10010024<br>black     |
| ▶ 200 ml<br>10057238<br>presspack | ▶ 200 ml<br>10057240<br>presspack | ▶ 200 ml<br>10057245<br>presspack |



### Flex 310 M® Stainless Steel

- ▶ 310 ml  
10049091



## Advantages of our solution:

- ▶ bonding of various materials
- ▶ flexibility in the design and manufacture of the vehicle
- ▶ vibration damping and noise reduction



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