



WEICON

APPLICATIONS AND PRODUCTS V



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V 1.26

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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

▶ 280 ml 10104011 weiß	▶ 280 ml 10104007 grau	▶ 280 ml 10103997 schwarz
▶ 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



WEICON Ceramic HC 220

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

Advantages of our solution:

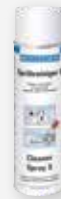
- ▶ preservation of the components
- ▶ simple and cost-effective maintenance

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



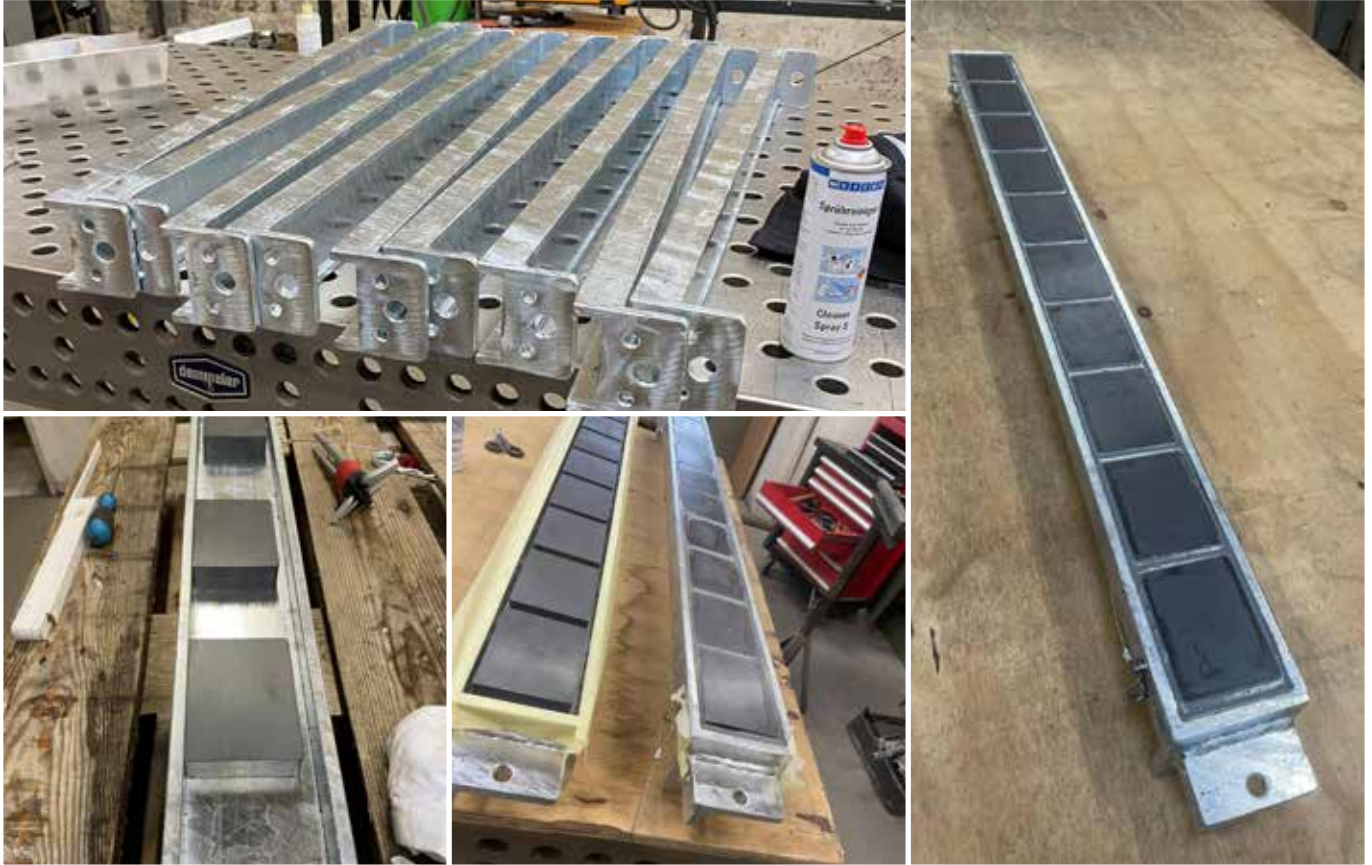
WEICON HB 300

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

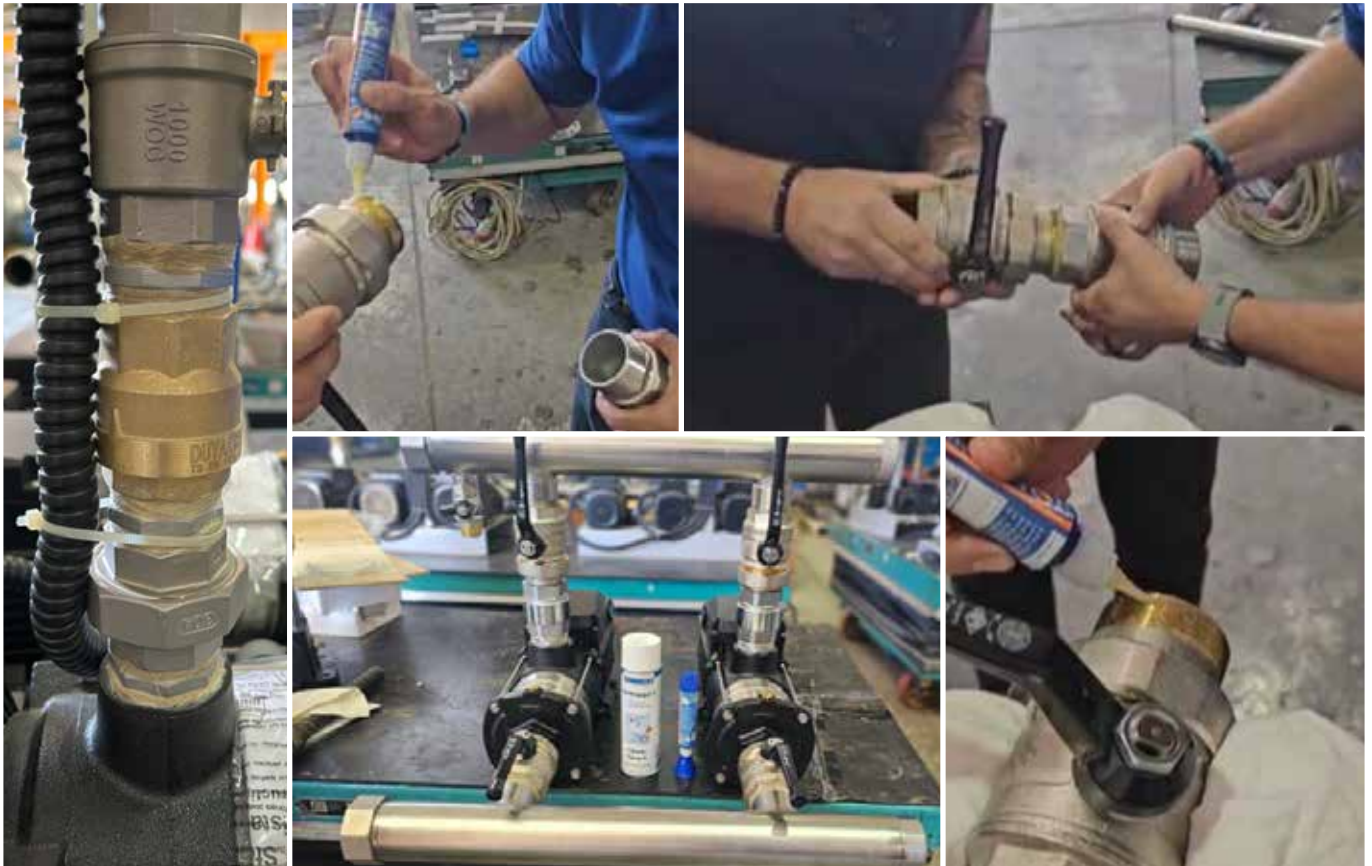


▶ 0.5 kg 10064790	▶ 3.0 kg (2.0 litres) 10045020	▶ 10.0 kg (6.6 litres) 10045019
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Advantages of our solution:

- ▶ 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

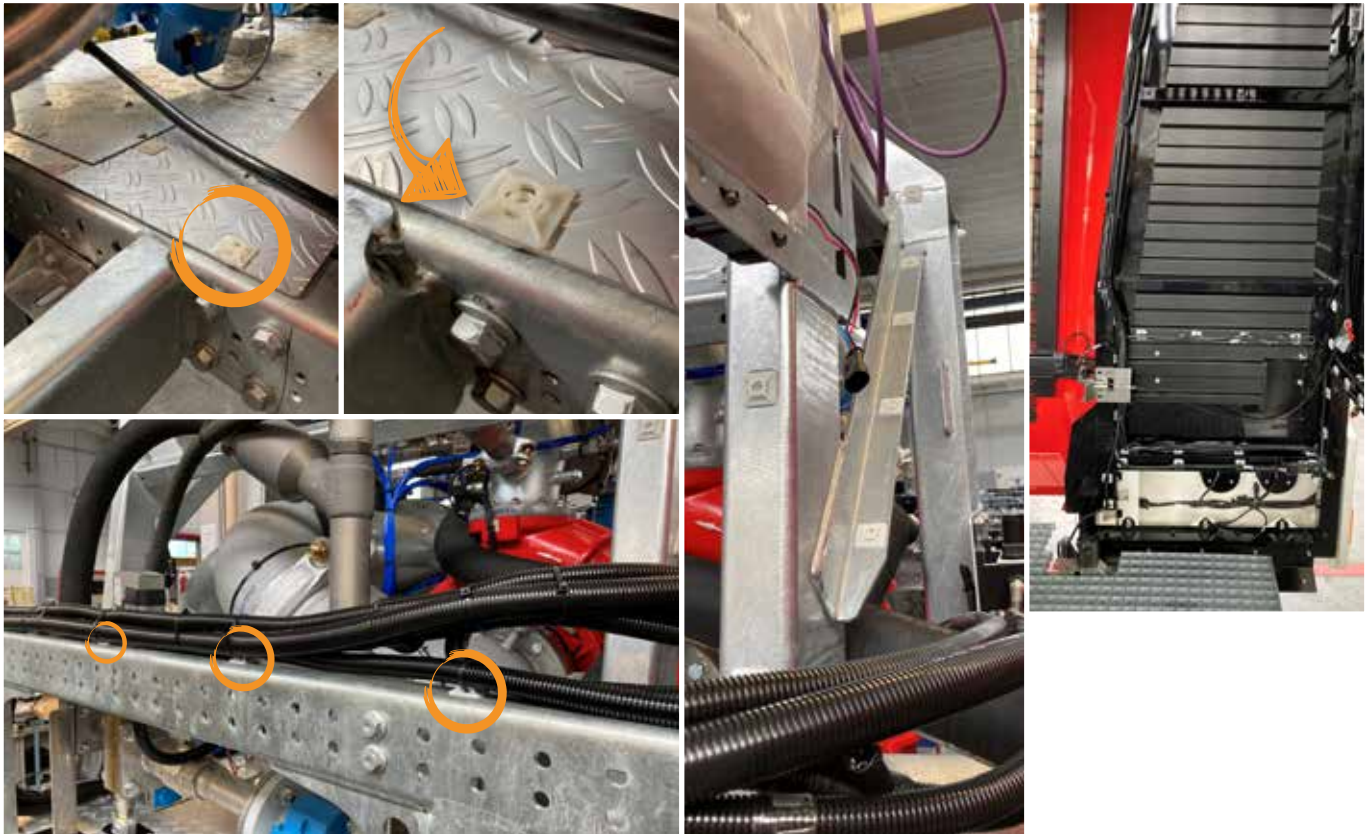
- ▶ 50 ml
10019949
- ▶ 200 ml
10020011
- ▶ 300 ml
10034148

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 ▶ 400 ml
- 10024317 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
- ▶ 50 g
- 10030534
- 10051232
- off-white, milky
- 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



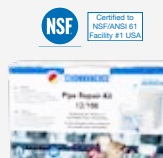
WEICON HB 300

▶ 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 10055740 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
- ▶ 0.5 kg
- ▶ 2.0 kg
- 10054381
- 10000003
- 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
- ▶ 0.5 kg
- ▶ 1.0 kg
- 10057791
- 10057714
- 10057800



WEICON Ceramic HC 220

- ▶ 0.2 kg
- ▶ 0.5 kg
- ▶ 2.0 kg
- 10060702
- 10060705
- 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
- ▶ 0.5 kg
- ▶ 2.0 kg
- ▶ 10054393
- ▶ 10054003
- ▶ 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
- ▶ 0.5 kg
- ▶ 1 kg
- ▶ 10062919
- ▶ 10062920
- ▶ 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 m²
- ▶ 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 ▶ 0.5 kg ▶ 2.0 kg
10054393 10054003 10054004



WEICON WP

▶ 0.2 kg ▶ 2.0 kg ▶ 10.0 kg
10054399 10032320 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 10004472
- ▶ 0.5 kg 10001084
- ▶ 1.0 kg 10000099



WEICON HP

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



WEICON Ceramic BL

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



WEICON Ceramic HC 220

- ▶ 0.2 kg 10060702
- ▶ 0.5 kg 10060705
- ▶ 2.0 kg 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
- ▶ 25 ml
- ▶ 10023567
- ▶ 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 m² 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
- ▶ 0.5 kg
- ▶ 2.0 kg
- ▶ 10060361
- ▶ 10060362
- ▶ 10060363



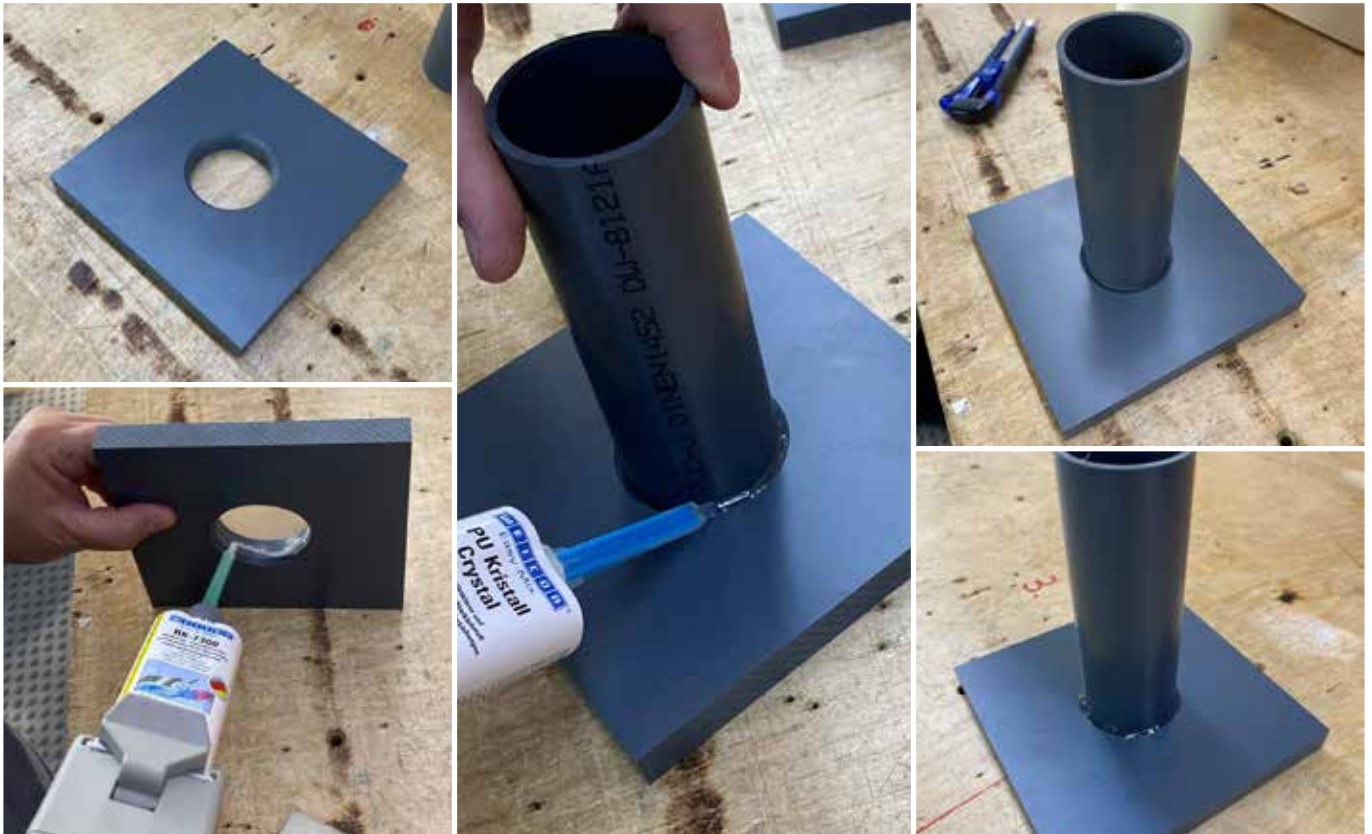
WEICON Ceramic HC 220

- ▶ 0.2 kg
- ▶ 0.5 kg
- ▶ 2.0 kg
- ▶ 10060702
- ▶ 10060705
- ▶ 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
- ▶ 0.5 kg
- ▶ 1.0 kg
- ▶ 10004472
- ▶ 10001084
- ▶ 10000099



WEICON Ceramic BL

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



WEICON GL-S

- ▶ 0.2 kg
- ▶ 0.5 kg
- ▶ 2.0 kg
- ▶ 10060361
- ▶ 10060362
- ▶ 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
- ▶ 0.5 kg
- ▶ 1.0 kg
- ▶ 10004472
- ▶ 10001084
- ▶ 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 ▶ 0.5 kg ▶ 2.0 kg
- ▶ 10060702 ▶ 10060705 ▶ 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)



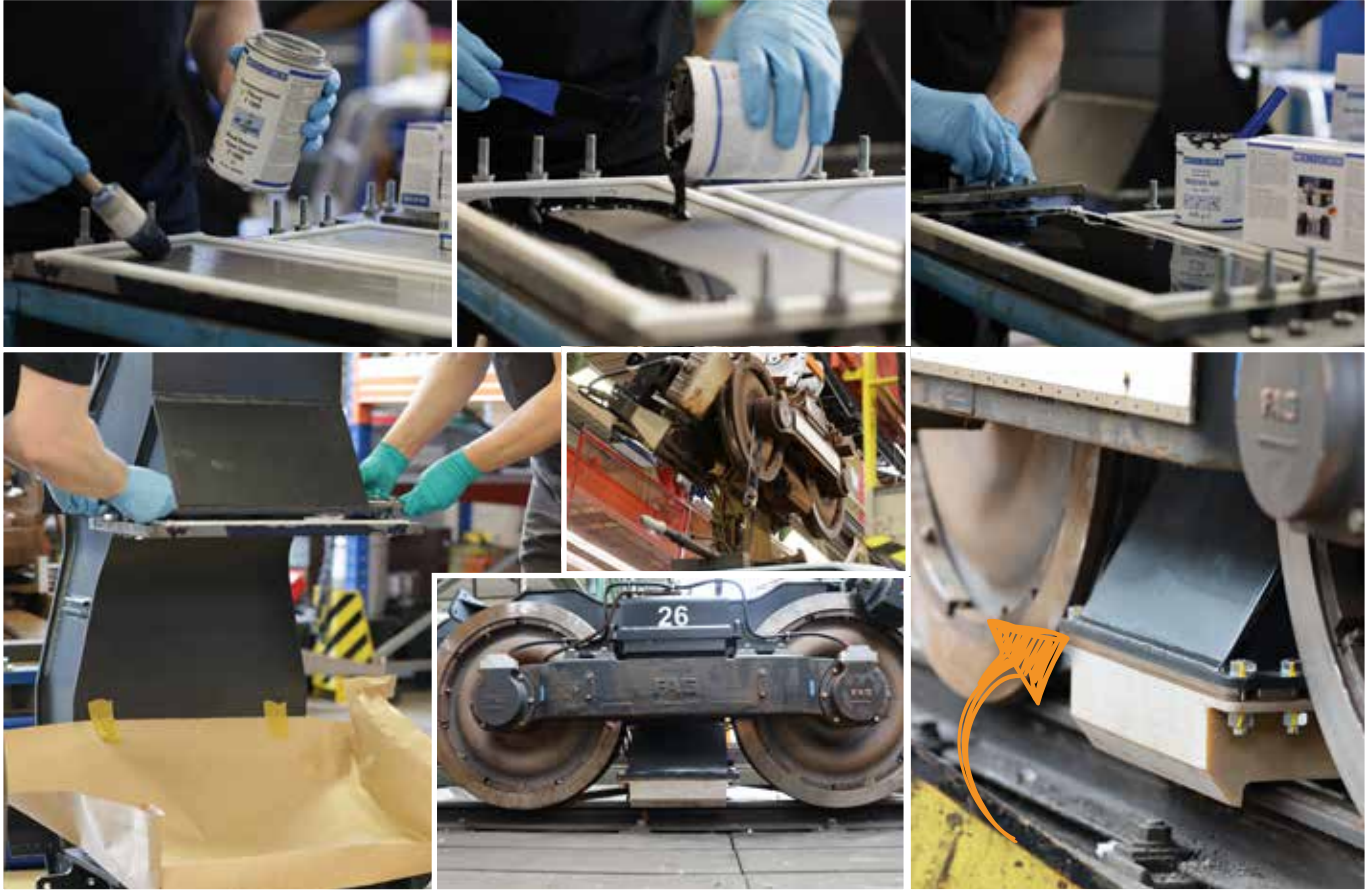
VA 30 Black

- | | | | |
|----------|----------|----------|----------|
| ▶ 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 10026647
- ▶ 1 L 10026167



WEICON WR

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



Threadlocking Varnish

- ▶ 30 g 10038883
- ▶ 60 g 10047485
- ▶ 30 g 10038884
- ▶ 60 g 10046906
- ▶ 30 g 10038882
- ▶ 60 g 10047481
- YELLOW** RAL 1021*
- GREEN** RAL 6010*
- RED** RAL 3000*

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 ▶ 0.5 kg ▶ 2.0 kg
10054394 10000093 10005233



WEICON GL

▶ 0.2 kg ▶ 0.5 kg ▶ 1.0 kg
10057791 10057714 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



WEICON WP

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

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

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



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



WEICON Ceramic BL

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

Advantages of our solution:

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

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 ▶ 115 g
- 10053992 10053995



WEICON SF

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



WEICON HP

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



Repair-Tape

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



WEICON GL-S

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

- ▶ 280 ml 10104011 white
- ▶ 280 ml 10104007 grey
- ▶ 280 ml 10103997 black

Speed-Flex®

- ▶ 280 ml 10104943 white
- ▶ 280 ml 10104953 grey
- ▶ 280 ml 10104963 black

Adhesive Spray extra strong

- ▶ 500 ml 10024662

Rust Converter

- ▶ 500 ml 10047458

Multi-Foam

- ▶ 150 ml 10063243
- ▶ 400 ml 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 m² 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

- ▶ 20 ml 10019901
- ▶ 50 ml 10017889
- ▶ 200 ml 10019982



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

Advantages of our solution:

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



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 ▶ 400 ml
- 10024317 10024313



Easy-Mix RK-7100

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

Advantages of our solution:

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



Flex 310 M® Classic, black

Flex 310 M® Stainless Steel

Flex 310 M® Classic, white

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

▶ 280 ml 10104011 white	▶ 280 ml 10104007 grey	▶ 280 ml 10103997 black
▶ 200 ml 10057238 presspack	▶ 200 ml 10057240 presspack	▶ 200 ml 10057245 presspack



Flex 310 M® Stainless Steel

▶ 280 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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