



WEICON

# APPLICATIONS AND PRODUCTS II



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V 1.25



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# ALWAYS THE RIGHT SOLUTION

We don't just sell products,  
we offer solutions – worldwide.

No matter where, we find the right answers  
to our customers' application requests.

Whether protective coatings on pump housings,  
pipe connections and hydraulic lines, repairs of  
conveyor belts, drive shafts and evaporators,  
or bonding of salt stones, stainless steel plates  
or roller journals – the WEICON product range  
is versatile and suitable for every application.



# Repair of an aero handlebar attachment



**Description:**

- ▶ cleaning with WEICON Surface Cleaner
- ▶ the velcro fabric on the foam pads of an aero handlebar attachment had come loose
- ▶ even application of WEICON Adhesive Spray onto the foam pads and the carrier plates



**Surface Cleaner**

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313

**Adhesive Spray**

- ▶ 500 ml 10000162

**Advantage of our solution:**

- ▶ very good adhesion of the adhesive spray to foam rubber and velcro fabric
- ▶ high moisture stability as well as water and ageing resistance
- ▶ permanent bonding





# Maintenance of a pump



## Description:

- ▶ cleaning with WEICON Cleaner Spray S
- ▶ filling and levelling the irregularities with WEICON HB 300
- ▶ final coating of the pump with WEICON Ceramic BL to protect against further damage



**WEICON HB 300**

- ▶ 0,2 kg 10004472
- ▶ 0,5 kg 10001084
- ▶ 1,0 kg 10000099



**Cleaner Spray S**

- ▶ 500 ml 10000147



**WEICON Ceramic BL**

- ▶ 0,2 kg 10054394
- ▶ 0,5 kg 10000093
- ▶ 2,0 kg 10005233

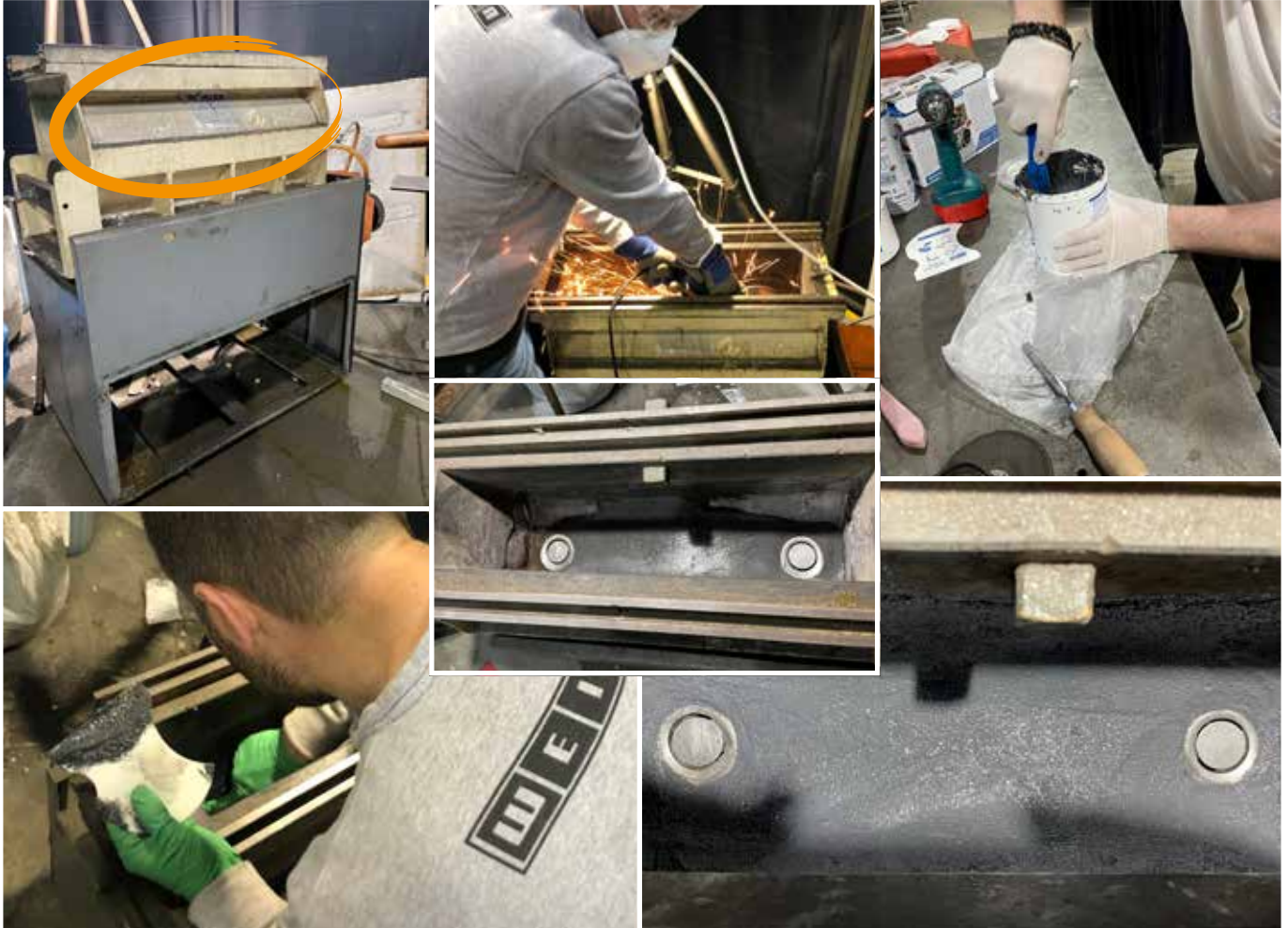
## Advantage of our solution:



- ▶ cost-effective repair compared to a replacement
- ▶ preventing a long downtime
- ▶ very good abrasion and wear resistance
- ▶ high resistance to substances



# Maintenance of a deburring machine



## Description:

- ▶ machine for deburring and finishing tools in small batches
- ▶ sanding the surface with an angle grinder and wire brush
- ▶ cleaning with WEICON Cleaner S
- ▶ application of WEICON WP as wear protection coating and protection against chemicals



### WEICON WP

- ▶ 0,2 kg 10054399
- ▶ 2,0 kg 10032320
- ▶ 10,0 kg 10032939



### Cleaner Spray S

- ▶ 500 ml 10000147



## Advantage of our solution:

- ▶ high resistance to substances of WEICON WP
- ▶ fast, simple and cost-effective repair



# Repair of a stone crusher plate in one of the largest quarries in the world



## Description:

- ▶ heavy wear and distortion on the panels due to friction and vibration
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of 50 kg WEICON WR on one panel
- ▶ total application of 400 kg WEICON WR on eight stone crusher plates



**WEICON WR**

- ▶ 0,2 kg 10054400
- ▶ 0,5 kg 10000077
- ▶ 2,0 kg 10000078



**Cleaner Spray S**

- ▶ 500 ml 10000147

## Advantage of our solution:



- ▶ perfect vibration and wear resistance
- ▶ high cost savings, as there is no need for complete replacement
- ▶ six-times longer service life
- ▶ fast, accurate, effective and long-lasting repair



## Grouting of an insulation block on a high-voltage line



### Description:

- ▶ filling the cavity with the epoxy resin system WEICON F
- ▶ protection against external influences (corrosion due to weathering)

\*image of a demo piece



### WEICON F

- |          |          |          |
|----------|----------|----------|
| ▶ 0,2 kg | ▶ 0,5 kg | ▶ 2,0 kg |
| 10054387 | 10000039 | 10000041 |



### Advantage of our solution:

- ▶ high thermal conductivity of WEICON F
- ▶ no heat build-up



## Repair of an eccentric press



### Description:

- ▶ sanding the cylinder of the eccentric press to 2 mm undersize
- ▶ flame-cutting of the cylinder to remove cutting oil residues and improve surface wetting
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of 4 mm layer thickness WEICON WR2 at slow rotation of the cylinder
- ▶ curing of the epoxy resin system at slow, even rotation
- ▶ after curing, reduce WEICON WR2 to specified size of 2 mm



**WEICON WR2**

- ▶ 0,2 kg  
10054401
- ▶ 0,5 kg  
10000087
- ▶ 2,0 kg  
10000088



**Cleaner Spray S**

- ▶ 500 ml  
10000147

VIDEO

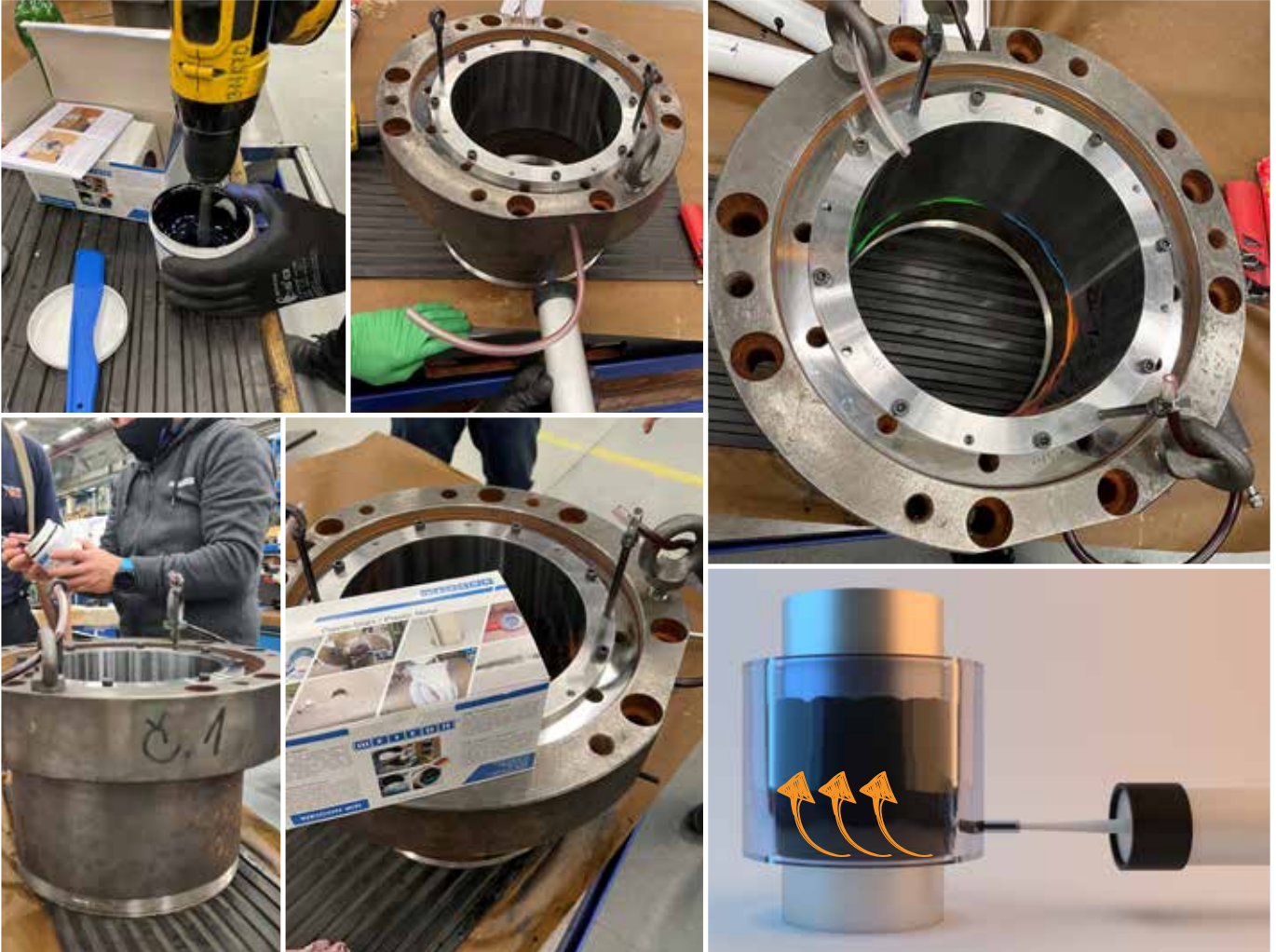


### Advantage of our solution:

- ▶ material-saving, quick and easy repair
- ▶ reduction of operational downtime



# Centring of two cylinders



### Description:

- ▶ steel cylinders are inserted into each other and wetted with WEICON Mould Release Agent
- ▶ fixation with a flange
- ▶ WEICON WR Plastic Metal is pressed through a hole on the underside of the outer cylinder
- ▶ subsequent outflow of WEICON WR at the upper flange (through the hoses)
- ▶ precise gap-filling achieved



**Mould Release Agent**

- ▶ 400 ml
- ▶ 10000154



**WEICON WR**

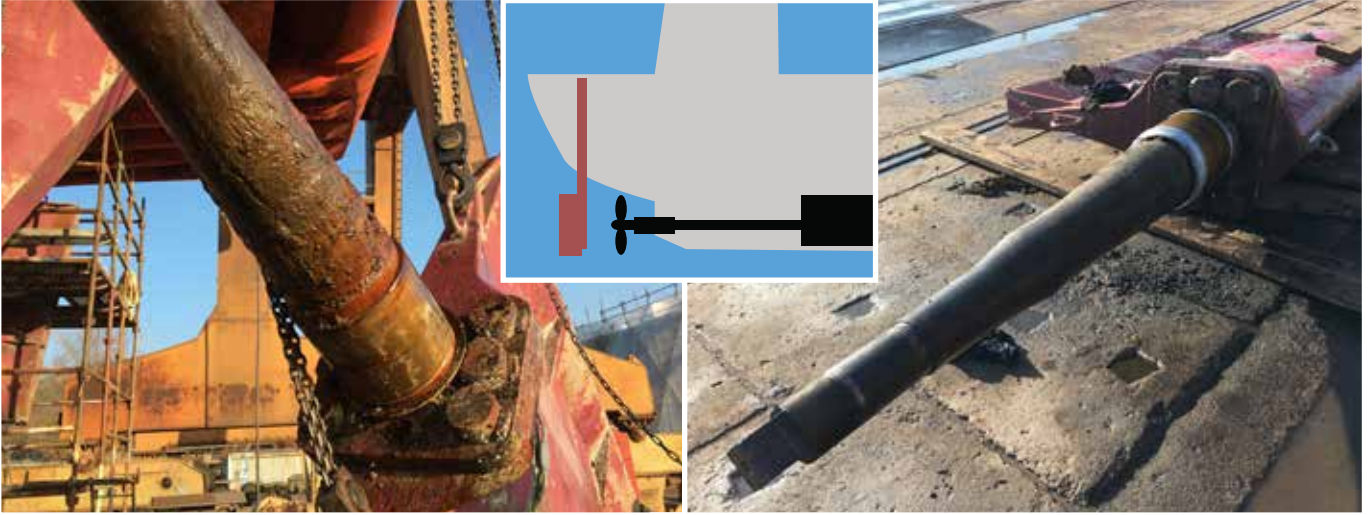
- ▶ 0,2 kg
- ▶ 0,5 kg
- ▶ 2,0 kg
- ▶ 10054400
- ▶ 10000077
- ▶ 10000078



### Advantage of our solution:

- ▶ easy processing
- ▶ precise form closure
- ▶ high pressure resistance
- ▶ low material costs, cost-effective

## Repair of a rudder steering shaft on a deep-sea vessel



### Description:

- ▶ removal of the corrosion layer by grinding the rudder steering post
- ▶ cleaning the grinded steering post with WEICON Cleaner Spray S
- ▶ application of WEICON Ceramic BL to the steering post during permanent, slow rotation
- ▶ curing of WEICON Ceramic BL at slow rotation for eight hours



**WEICON Ceramic BL**

- ▶ 0,2 kg 10054394
- ▶ 0,5 kg 10000093
- ▶ 2,0 kg 10005233



**Cleaner Spray S**

- ▶ 500 ml 10000147



### Advantage of our solution:

- ▶ durable, substance-resistant coating to protect against corrosion
- ▶ uncomplicated, fast, economical repair of the rudder steering post



# Interstitial grouting on a pipe-in-pipe system for electrical insulation



### Description:

- ▶ pre-cleaning with WEICON Surface Cleaner
- ▶ preparation of the casting by attaching a funnel
- ▶ mixing WEICON Casting Resin MS 1000
- ▶ filling the resin into the cavity until material flows over at the top
- ▶ electrical insulation of the current feedthrough achieved



**Surface Cleaner**

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



**WEICON Casting Resin MS 1000**

- ▶ 0,2 kg 10054402
- ▶ 0,5 kg 10040057
- ▶ 1,0 kg 10000168



### Advantage of our solution:

- ▶ low-viscosity casting resin
- ▶ ideal for small gaps
- ▶ non-conductive
- ▶ pressure-resistant



# Repair of press moulds in the production of seat cushions



## Description:

- ▶ previous alternative solution: replacement of the components
- ▶ cleaning with WEICON Surface Cleaner
- ▶ repair of press moulds for the production of seat cushions with the epoxy resin system WEICON F



### WEICON F

- ▶ 0,2 kg 10054387
- ▶ 0,5 kg 10000039
- ▶ 2,0 kg 10000041

### Surface Cleaner

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313

VIDEO



## Advantage of our solution:



- ▶ extension of the service life of the customised press moulds
- ▶ high cost savings, as no replacement of components is required
- ▶ fast and easy repair
- ▶ prevention of high reject rates during production



## Coating of ship propellers



### Description:

- ▶ as part of the recertification, a total of six propellers on three ships were coated
- ▶ the propellers were coated with WEICON Ceramic BL to protect them from cavitation and epibiosis
- ▶ due to the technical properties of WEICON Ceramic BL, no imbalance occurs during propeller coating



### WEICON Ceramic BL

- ▶ 0,2 kg  
10054394
- ▶ 0,5 kg  
10000093
- ▶ 2,0 kg  
10005233



### Cleaner Spray S

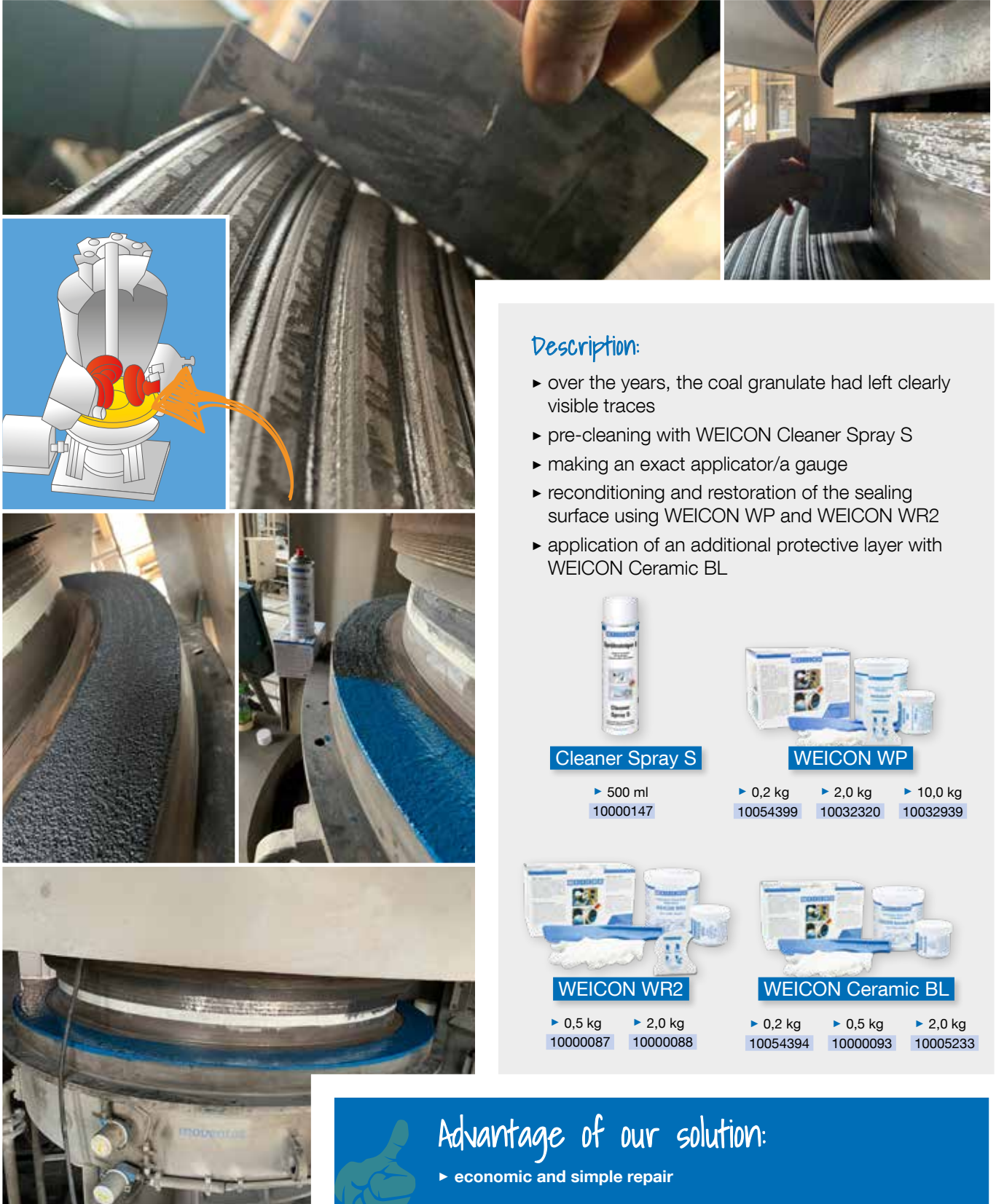
- ▶ 500 ml  
10000147



### Advantage of our solution:

- ▶ avoidance of a cost-intensive replacement
- ▶ fast repair without long downtimes

# Repair of a coal mill



### Description:

- ▶ over the years, the coal granulate had left clearly visible traces
- ▶ pre-cleaning with WEICON Cleaner Spray S
- ▶ making an exact applicator/a gauge
- ▶ reconditioning and restoration of the sealing surface using WEICON WP and WEICON WR2
- ▶ application of an additional protective layer with WEICON Ceramic BL



**Cleaner Spray S**

▶ 500 ml  
10000147



**WEICON WP**

▶ 0,2 kg    ▶ 2,0 kg    ▶ 10,0 kg  
10054399    10032320    10032939



**WEICON WR2**

▶ 0,5 kg    ▶ 2,0 kg  
10000087    10000088



**WEICON Ceramic BL**

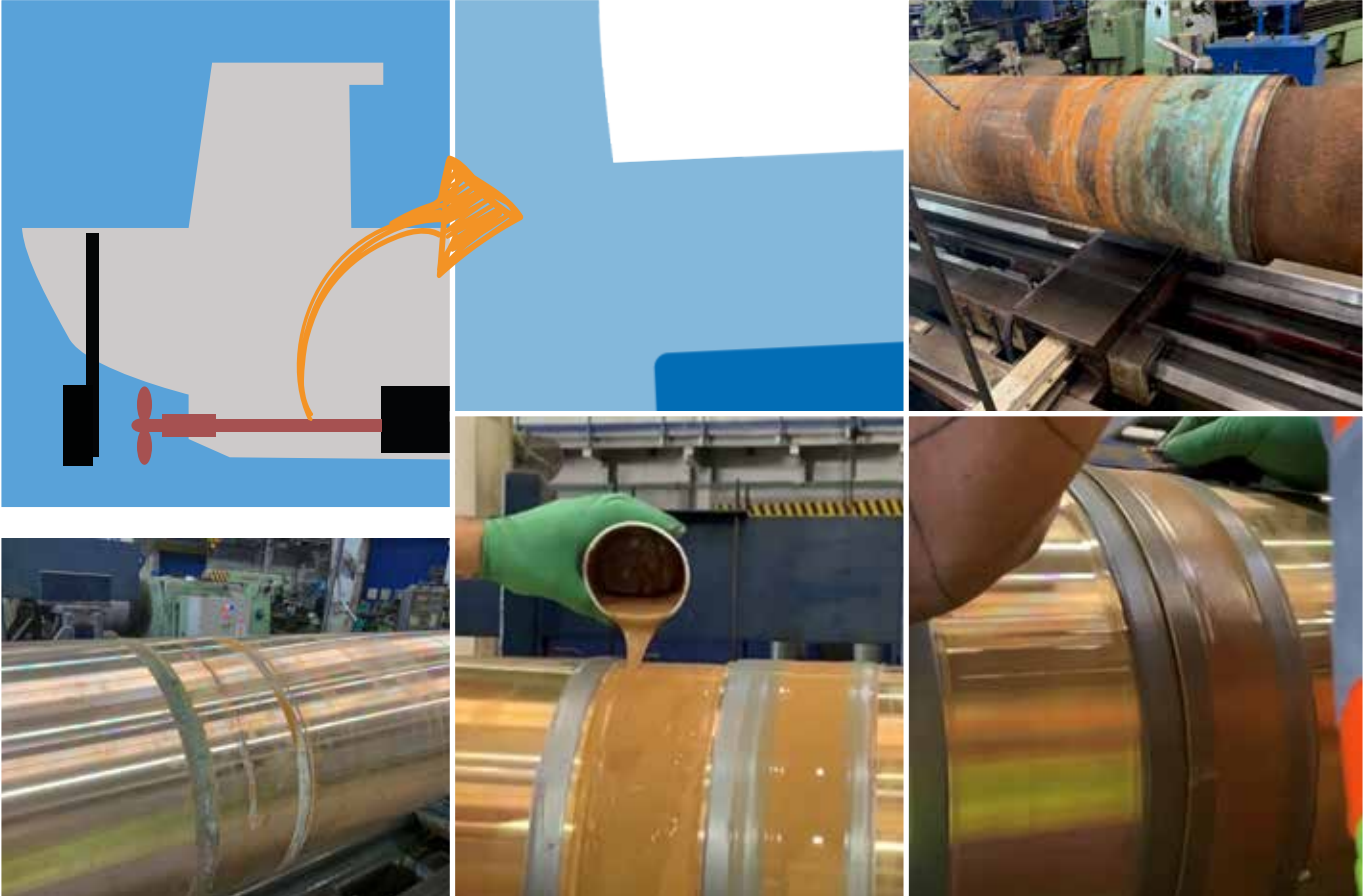
▶ 0,2 kg    ▶ 0,5 kg    ▶ 2,0 kg  
10054394    10000093    10005233

### Advantage of our solution:

- ▶ economic and simple repair
- ▶ no welding or exchange of parts necessary
- ▶ extension of the service life of the coal mill



# Repair of a bronze propeller shaft



## Description:

- ▶ propeller shaft had shrunk slightly by approx. 5 mm in the sealing area due to sediment build-up (stern tube)
- ▶ shaft was sanded down by 4 mm and by 200 mm in width
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ creating a barrier by means of tape (3 mm)
- ▶ application of WEICON BR at slow rotation of the shaft
- ▶ slow rotation of the shaft during curing to prevent WEICON BR from dripping off
- ▶ sanding the shaft to size after curing
- ▶ finishing the shaft with fine abrasive cloth (approx. 0.2 mm)
- ▶ reinstalling the propeller shaft



**WEICON BR**

- ▶ 0,2 kg 10054386
- ▶ 0,5 kg 10012669
- ▶ 2,0 kg 10012670



**Cleaner Spray S**

- ▶ 500 ml 10000147

## Advantage of our solution:

- ▶ avoidance of a cost-intensive replacement
- ▶ easy and time-saving repair
- ▶ good material compatibility and seawater resistance of WEICON BR

VIDEO



## Bonding control panels in bathroom systems



### Description:

- ▶ bonding in a control panel with rubber edging in natural stone for the QFive electronic fitting system from GERLOFF & Söhne GmbH & Co. KG
- ▶ pre-treatment with WEICON Cleaner Spray S
- ▶ bonding with WEICON Easy-Mix S 50



Cleaner Spray S

▶ 500 ml  
10000147



Easy-Mix S 50

extremely high adhesive strength | viscous | self-levelling | very short pot life | fast-curing

▶ 50 ml  
10005230

### Advantage of our solution:

- ▶ better adhesion and visual reasons
- ▶ good adhesion to both adherends and optimum viscosity for the application
- ▶ low water absorption of epoxy resins



# Repair of a centrifugal cutter in a concrete plant



## Description:

- ▶ the polyurethane coating of the centrifugal separator had been damaged over time by conveying gravel and sand
- ▶ cleaning with WEICON Cleaner S
- ▶ application of WEICON Primer G and flash-off time of approx. 30 minutes
- ▶ mixing of WEICON Urethane 85 resin and hardener thoroughly without air bubbles
- ▶ filling the damaged areas with WEICON Urethane 85
- ▶ application of WEICON Urethane 85 with WEICON Contour Spatula Flexy and paint brush and subsequent smoothing out



**Cleaner Spray S**

▶ 500 ml  
10000147



**Urethane 85**

**Shore hardness: A 85**

▶ 500 g      ▶ 540 g  
10057130      10057188  
Work Package      Cartridge



## Advantage of our solution:

- ▶ fast and easy repair
- ▶ very good wear protection
- ▶ complete renewal of the polyurethane coating could be avoided
- ▶ high cost and time savings
- ▶ low material input (1 kg WEICON Urethane 85)



**Primer G**

special bonding agent for urethanes for the pre-treatment of rubber and metal surfaces

▶ 50 g  
10057199



## Restoration of a metal ball curtain in a hotel lobby



### Description:

- ▶ metal balls were corroded due to high humidity and ageing
- ▶ the whole curtain was soaked in acid cleaning solution for several days
- ▶ final cleaning with WEICON Surface Cleaner
- ▶ application of WEICON Gold Spray as a visually appealing and corrosion-protective coating; 700 cans of WEICON Gold Spray were used.
- ▶ duration of the restoration: four weeks



Surface Cleaner

▶ 150 ml ▶ 400 ml  
10024317 10024313



Gold Spray

▶ 400 ml  
10047557

### Advantage of our solution:

- ▶ restoration of the original function (gloss)



# Bonding of flour sieves in the food industry



### Description:

- ▶ cleaning of anodised aluminium with WEICON Fast Cleaner
- ▶ stretching the net made of special silk over the aluminium frame
- ▶ application of the adhesive WEICON Contact VA 20 to the aluminium frame with the stretched special silk
- ▶ treatment of the adhesive areas with WEICON Activator to accelerate the curing speed and to achieve immediate handling strength



#### VA 20

- ▶ 30 g  
10016618
- ▶ 60 g  
10019781
- ▶ 500 g  
10000215



#### Fast Cleaner

- ▶ 500 ml  
10039119



#### Activator

- ▶ 150 ml  
10033805

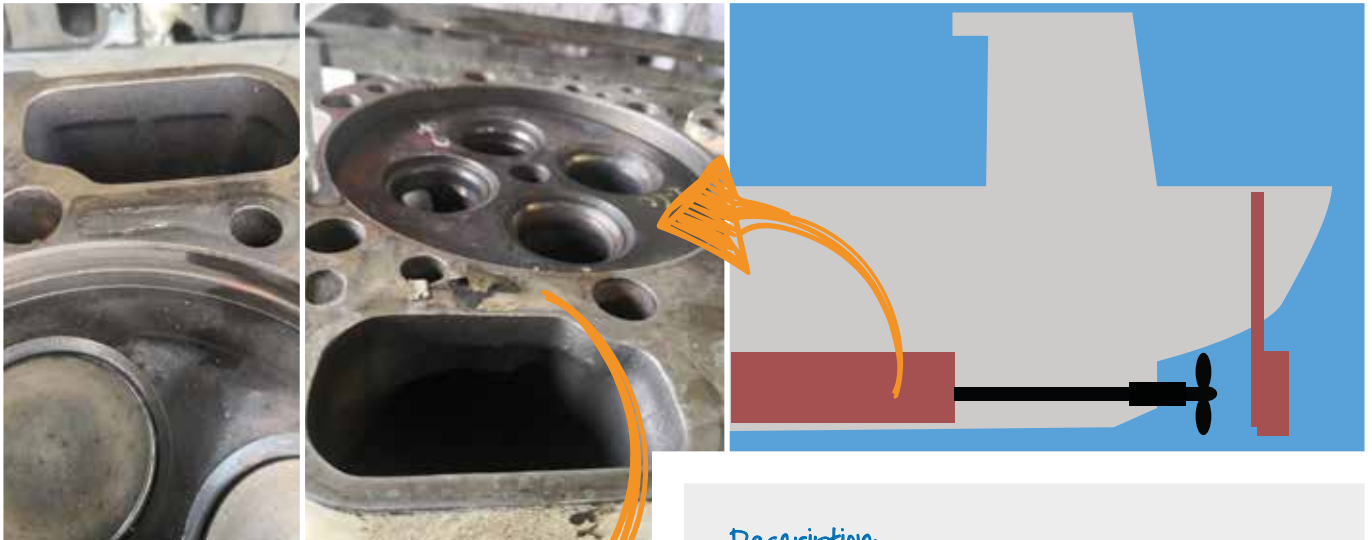
VIDEO



### Advantage of our solution:

- ▶ fast, economical and uncomplicated assembly
- ▶ additional tensioning frame is not required

## Repair of the cylinder block of a ship engine



### Description:

- ▶ cleaning the damaged areas with WEICON Cleaner Spray S
- ▶ sealing the cracks between the oil and water circuits with WEICON Fast-Metal Minute Adhesive



#### Fast-Metal Minute Adhesive

highly filled | pasty |  
very short pot life |  
fast-curing |  
gap-filling

- ▶ 24 ml
- ▶ 10007785



#### Cleaner Spray S

- ▶ 500 ml
- ▶ 10000147



#### Processing Spatula short

- ▶ 10010887

VIDEO



### Advantage of our solution:

- ▶ temperature-, water- and oil-resistant repair solution
- ▶ no heat input as with welding
- ▶ easy processing



# Joint repair of a dam overflow pipe



## Description:

- ▶ mechanical cleaning with an angle grinder to remove the corrosion layer
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ grouting the joints with the epoxy resin system WEICON HP
- ▶ recoating time approx. 40 minutes
- ▶ first recoating with WEICON Ceramic BL
- ▶ recoating time approx. 40 minutes
- ▶ final coating for high wear protection with WEICON Ceramic BL
- ▶ final strength after 48 hours



**WEICON HP**

- ▶ 0,2 kg  
10054393
- ▶ 0,5 kg  
10054003
- ▶ 2,0 kg  
10054004



**Cleaner Spray S**

- ▶ 500 ml  
10000147



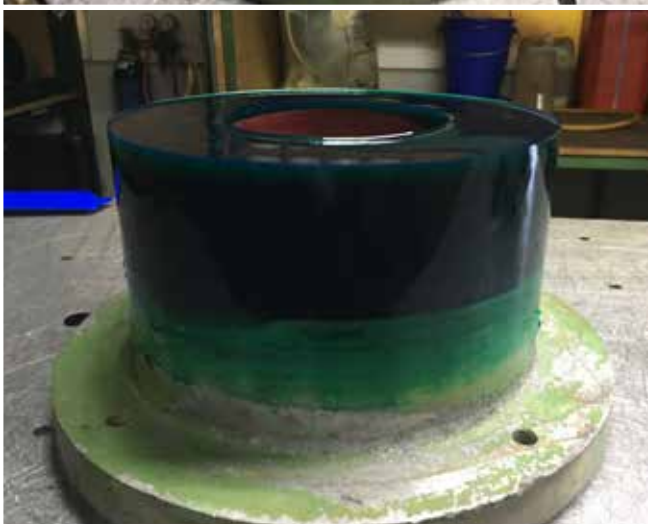
**WEICON Ceramic BL**

- ▶ 0,2 kg  
10054394
- ▶ 0,5 kg  
10000093
- ▶ 2,0 kg  
10005233

## Advantage of our solution:

- ▶ long-term restoration of the full functionality of the pipe
- ▶ low material and cost input

## Repair of a flange/sleeve in a gravel plant for fine sand extraction



### Description:

- ▶ cleaning with WEICON Cleaner Spray S
- ▶ sandblasting (SA 2½)
- ▶ repeated cleaning with WEICON Cleaner Spray S
- ▶ wetting of the surfaces to be demoulded with WEICON Mould Release Agent liquid
- ▶ approx. 10 minutes flash-off time
- ▶ mixing of WEICON Urethane 80
- ▶ adding WEICON Colour Paste Black as required
- ▶ vacuum suction to avoid air bubbles
- ▶ pouring in the mixed WEICON Urethane 80
- ▶ heating the casting surface with a hot air gun to avoid air bubbles
- ▶ curing in the oven at approx. 60 °C for 24 hours
- ▶ use of compressed air to facilitate demoulding



Urethane 80

Shore hardness: A 80

- ▶ 500 g
- ▶ 10012368



Mould Release Agent

- ▶ 400 ml
- ▶ 10000154



Cleaner Spray S

- ▶ 500 ml
- ▶ 10000147

VIDEO



### Advantage of our solution:

- ▶ fast repair of the machine part
- ▶ avoiding a replacement of special components
- ▶ high cost saving





# Repair of several fenders/buffers at a port facility for cruise ships



## Description:

- ▶ removing the loose rubber pieces
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ roughening the damaged areas with sandpaper
- ▶ application of WEICON Primer G
- ▶ application of WEICON Urethane 85



**Cleaner Spray S**

▶ 500 ml  
10000147



**Urethane 85**

**Shore hardness: A 85**

▶ 500 g      ▶ 540 g  
10057130    10057188  
Work Package    Cartridge



**Primer G**

special bonding agent for urethanes for the pre-treatment of rubber and metal surfaces

▶ 50 g  
10057199



**Dispenser 2C 10:1**

recommended for the 2-component 540g cartridge

10057514



## Advantage of our solution:

- ▶ inner steel plate is protected from external influences by the repair
- ▶ prevention of corrosion



# Bonding of 28,000 brackets for aluminium rhombs at the Pakistan Pavilion at the Expo 2020



## Description:

- ▶ use of several WEICON products at the pavilion
- ▶ cleaning the aluminium rhombs with WEICON Cleaner Spray S
- ▶ application of WEICON Primer K 200 for better cross-linking of the surface
- ▶ bonding the 28,000 aluminium rhombs with WEICON Flex 310 M® Classic
- ▶ in the adhesion test, the material was damaged rather than the adhesive



Cleaner Spray S

▶ 500 ml  
10000147



Flex 310 M® Classic

▶ 310 ml  
10010026  
grey



Primer K 200

▶ 250 ml  
10023567



## Advantage of our solution:

- ▶ adhesive bonding instead of screws
- ▶ fast and visually appealing solution that meets the highest design requirements
- ▶ implementation of a total of 28,000 bondings
- ▶ processing at high outside temperatures of 40° C possible



## Repair of the bearing seat in a gear block of a wind turbine



### Description:

- ▶ preparation and removal of the surface with a horizontal milling cutter
- ▶ material removal of 4 mm
- ▶ new material application of WEICON WR2 to at least 6 mm, to allow subsequent machining
- ▶ repeated material removal of 2 mm
- ▶ mounting the bearing



### WEICON WR2

- ▶ 0,2 kg 10054401
- ▶ 0,5 kg 10000087
- ▶ 2,0 kg 10000088



### Advantage of our solution:

- ▶ repair instead of replacement
- ▶ fast, custom-fit and economical solution

## Repair of a ship propulsion shaft

**Description:**

- ▶ repairing and filling the damage caused by cavitation
- ▶ corrosion protection coating with WEICON Ceramic BL
- ▶ final coating for protection against marine animals with WEICON Urethane 80

**WEICON WR**

▶ 0,2 kg	▶ 0,5 kg	▶ 2,0 kg
10054400	10000077	10000078

**WEICON Ceramic BL**

▶ 0,2 kg	▶ 0,5 kg	▶ 2,0 kg
10054394	10000093	10005233

**Urethane 80**

Shore hardness: A 80

▶ 500 g
10012368

**VIDEO**

### Advantage of our solution:

- ▶ avoidance of a cost-intensive replacement
- ▶ fast repair without long downtimes



# Crack repair of a moulding die for bumpers in the automotive industry



## Description:

- ▶ cleaning of the rear honeycomb structure in the damaged area with WEICON Cleaner Spray S
- ▶ use of WEICON Crack Testing Agent to locate cracks
- ▶ pouring WEICON WR into the honeycombs to fill the cavities of the die
- ▶ material grouting of 235 kg WEICON WR was carried out over the period of one week (due to exothermic reaction)



## Advantage of our solution:

- ▶ mould now withstands future pressure and further cracking is prevented
- ▶ economic repair to ensure final production of the batch
- ▶ cost savings of approx. 100,000 € for a new die
- ▶ another 8,000 to 10,000 pressings could be made to complete production



## Repair of a damaged area on the conveyor belt of a bucket elevator in the cement industry



### Description:

- ▶ removing coarse rubber residues from the damaged area
- ▶ roughening the repair area with abrasive cloth
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON Primer G
- ▶ application of WEICON Urethane 85



### Cleaner Spray S

- ▶ 500 ml
- ▶ 10000147



### Primer G

special bonding agent for urethanes for the pre-treatment of rubber and metal surfaces

- ▶ 50 g
- ▶ 10057199



### Urethan 85

Shore hardness: A 85

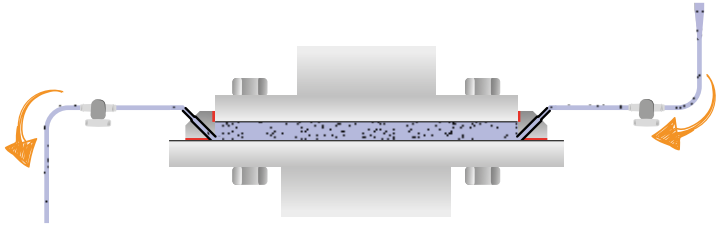
- ▶ 500 g
- ▶ 540 g
- ▶ 10057130
- ▶ 10057188
- Work Package
- Cartridge

### Advantage of our solution:

- ▶ ropes in the conveyor belt are protected against corrosion
- ▶ extension of the service life

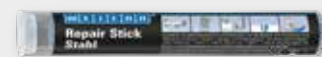


# Gap compensation on a crusher in a grinding mill



## Description:

- ▶ treatment of the inner ring with WEICON Silicone Spray to enable later disassembly
- ▶ attachment of injection packers with WEICON Easy-Mix PU-90
- ▶ use of WEICON Repair Stick Steel to seal the gap before casting
- ▶ injection of WEICON WR with the aid of the WEICON Injection Packer Set
- ▶ wear within 4 months, repair 4 times a year, wear from 100 mm to 20 mm
- ▶ approx. 20 kg used for one repair



### Repair Stick Steel

- ▶ 57 g      ▶ 115 g
- 10010241    10007705



### Injection Packer Set

- ▶ System for gap compensation on bridges, pillars, machines, and plants.
- 10057667

## Advantage of our solution:

- ▶ precisely fitting, stable gap compensation
- ▶ smooth running of the mill ensured
- ▶ extension of the service life



### WEICON WR

- ▶ 0,2 kg      ▶ 0,5 kg      ▶ 2,0 kg
- 10054400    10000077    10000078

## Production of air rifles and sporting guns



### Description:

- ▶ cleaning of the parts to be bonded with WEICON Surface Cleaner
- ▶ application of WEICON Contact Primer for Polyolefins
- ▶ bonding of handle components to thermoplastic materials (shaft handle) with WEICON Contact VM 2000
- ▶ cleaning the muzzle damper with WEICON Surface Cleaner
- ▶ application of WEICON Contact VA 8406
- ▶ joining/sliding on the parts by means of a fixture



Surface  
Cleaner

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



Contact Primer for Polyolefins

- ▶ 10 ml 10000275
- ▶ 100 ml 10000278
- ▶ 1 L 10000279



VM 2000

- ▶ 30 g 10019865
- ▶ 60 g 10019867
- ▶ 500 g 10000270



VA 8406

- ▶ 30 g 10016396
- ▶ 60 g 10019794
- ▶ 500 g 10001559

VIDEO



### Advantage of our solution:

- ▶ economic production
- ▶ excellent bonding of low surface energy plastics



# Bonding, sealing, lubricating, greasing as well as maintaining olive processing machines



## Description:

- ▶ use of WEICON products in five areas for separator maintenance
- ▶ use of WEICONLOCK® AN 305-18 for surface sealing at the connection of two axles
- ▶ use of WEICONLOCK® AN 306-41 for fastening bearings
- ▶ bonding of a metal-plastic joint with WEICON Contact VA 1401
- ▶ wear protection coating by means of WEICON WP on screw conveyors



**AN 306-41**

▶ 50 ml 10017892    ▶ 200 ml 10020033



**AN 305-18**

▶ 50 ml 10019941    ▶ 200 ml 10019999

**NSF** Nonfood Compounds Program Listed S2 Registration 167442



**WEICON HP**

▶ 0,2 kg 10054393    ▶ 0,5 kg 10054003    ▶ 2,0 kg 10054004



**VA 1401**

▶ 30 g 10016402    ▶ 60 g 10019787

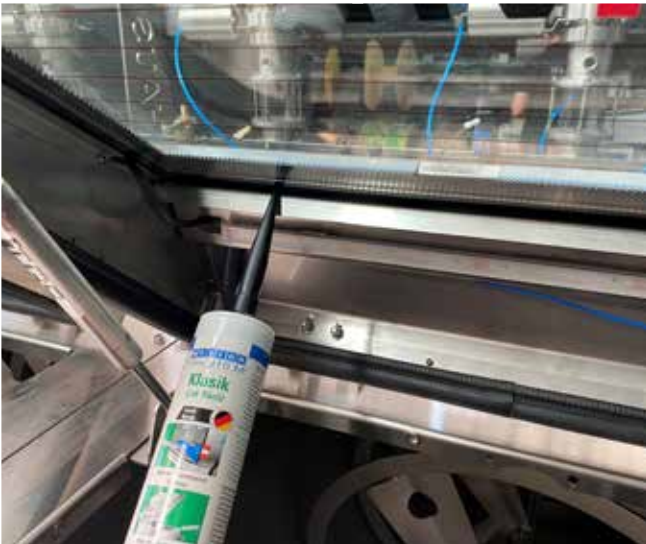
**NSF** Nonfood Compounds Program Listed S4 Registration 162969

**Advantage of our solution:**

- ▶ easy application of the products in maintenance



# Cleaning of stainless steel containers and bonding of sight glasses on olive processing machines



## Description:

- ▶ cleaning of the main body with WEICON Metal Fluid
- ▶ use of WEICON Flex 310 M® for bonding and sealing metal and glass



**Metal-Fluid**

▶ 400 ml  
10016338



**Flex 310 M® Classic**

▶ 310 ml  
10010024  
black

VIDEO



## Advantage of our solution:

- ▶ long-lasting, safe and economical maintenance by means of various products



# Bonding of metal plates in rail vehicles



## Description:

- ▶ cleaning of the metal plates with WEICON Cleaner Spray S
- ▶ bonding of frames and panels using WEICON Flex 310 M® HT 200
- ▶ subsequent powder coating (20 minutes at 200 °C)



Cleaner Spray S

▶ 500 ml  
10000147



Flex 310 M® HT 200

▶ 290 ml  
10031149  
grey

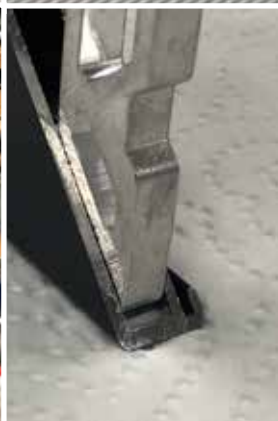


## Advantage of our solution:

- ▶ no heat input and material distortion through welding
- ▶ due to high temperature resistance of the adhesive, subsequent powder coating possible



## Bonding of aluminium frames with an aluminium push-in joint



### Description:

- ▶ cleaning the aluminium parts with WEICON Surface Cleaner
- ▶ application of the adhesive WEICON Easy-Mix PU Crystal into the aluminium profiles
- ▶ mounting the aluminium frame



Easy-Mix PU Crystal

high-strength | fast-curing |  
for transparent and visually  
appealing adhesive bonds | pot  
life approx. 120 - 240 seconds

▶ 50 ml  
10058022



Surface Cleaner

▶ 150 ml | ▶ 400 ml  
10024317 | 10024313

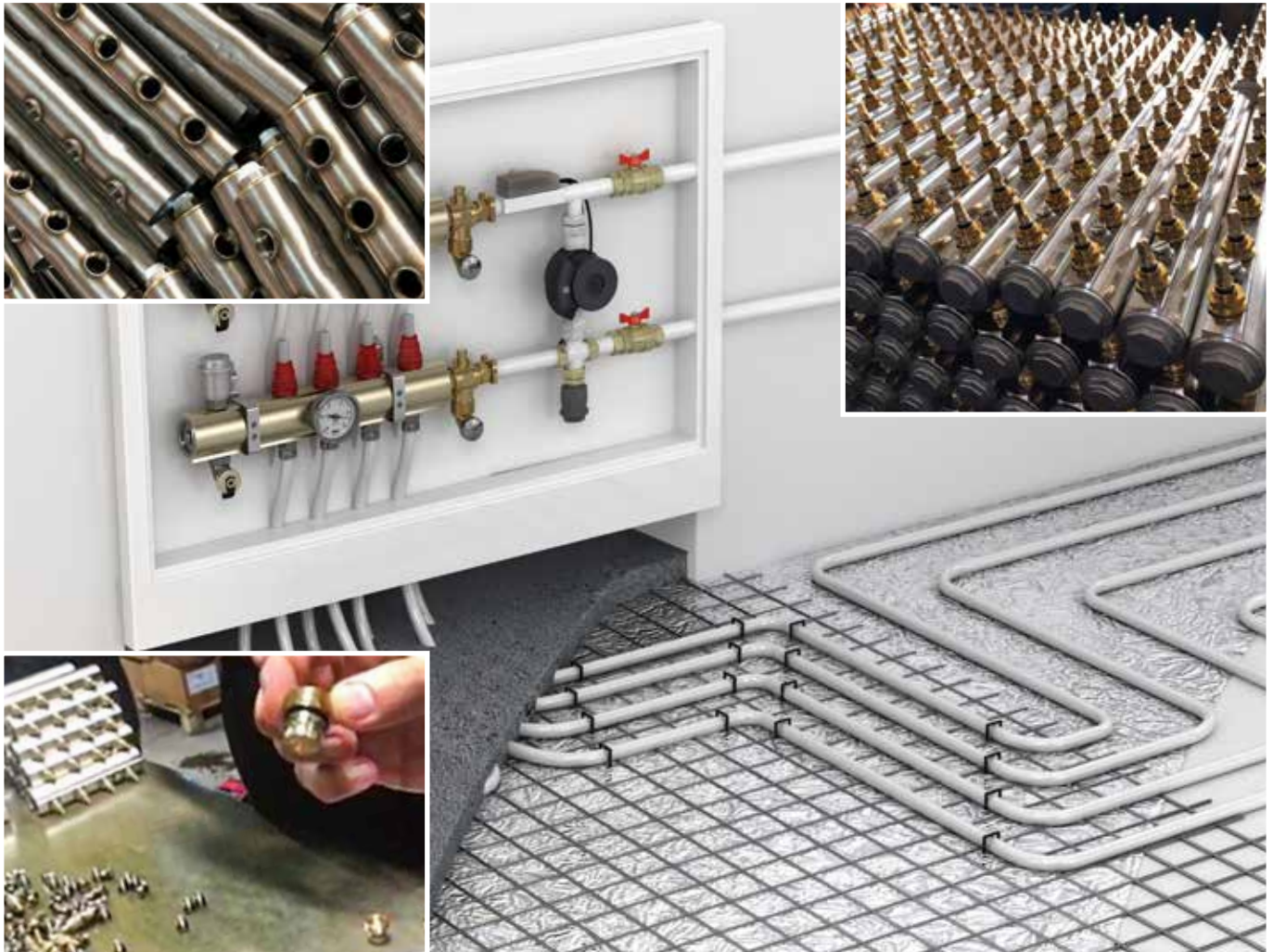
### Advantage of our solution:



- ▶ visually appealing bonding due to transparent, crystal-clear curing
- ▶ avoiding the use of visible fasteners (brackets)



## Securing and sealing of distributors in underfloor heating



### Description:

- ▶ previous solution with a sealing thread
- ▶ cleaning with Cleaner Spray S
- ▶ fixation of the distributors in underfloor heating with WEICONLOCK® AN 306-38 and WEICONLOCK® AN 306-48



**AN 306-38**

▶ 50 ml  
10017888



**AN 306-48**

▶ 50 ml  
10017893

▶ 200 ml  
10020035



**Cleaner Spray S**

▶ 500 ml  
10000147



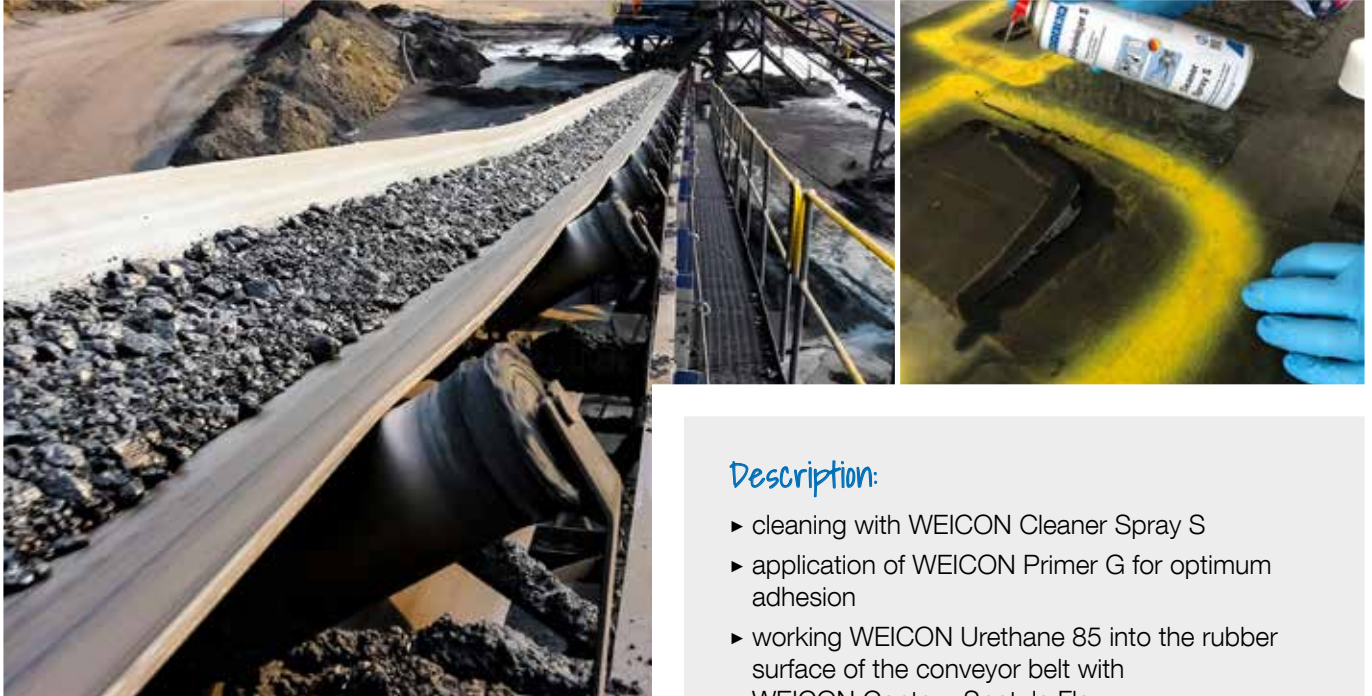
### Advantage of our solution:

- ▶ excellent combination of WEICONLOCK® AN 306-38 and WEICONLOCK® AN 306-48 for sealing and securing the connection

VIDEO



## Repair of a conveyor belt



### Description:

- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON Primer G for optimum adhesion
- ▶ working WEICON Urethane 85 into the rubber surface of the conveyor belt with WEICON Contour Spatula Flexy



Cleaner Spray S

▶ 500 ml  
10000147



Belt Repair-Kit

10052425

VIDEO



### Advantage of our solution:

- ▶ replacing the conveyor belt and complex vulcanisation not necessary
- ▶ fast and easy repair
- ▶ significant extension of the service life of the conveyor belt



## Fixation of safety railing posts in bridge construction



### Description:

- ▶ cleaning with WEICON Surface Cleaner
- ▶ attaching mounting aids made of steel with WEICON Easy-Mix RK-7000 Structural Acrylic Adhesive



Surface Cleaner

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



Easy-Mix RK-7000

- ▶ 50 ml 10018563



### Advantage of our solution:

- ▶ avoidance of time-consuming welding
- ▶ no material stress due to heat during welding
- ▶ easy to use



## Repair of a filter in a hydropower plant



### Description:

- ▶ significant corrosion damage and leakage on the filter of a hydropower plant
- ▶ mechanical removal of coarse dirt and rust
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ sealing the blowholes with the pasty and steel-filled WEICON A
- ▶ application of WEICON Ceramic BL as additional wear protection coating



WEICON A

- ▶ 0,2 kg 10054381
- ▶ 0,5 kg 10000003
- ▶ 2,0 kg 10000006



Cleaner Spray S

- ▶ 500 ml 10000147



WEICON Ceramic BL

- ▶ 0,2 kg 10054394
- ▶ 0,5 kg 10000093
- ▶ 2,0 kg 10005233

### Advantage of our solution:

- ▶ ideal combination of the epoxy resin systems – repair aid and wear protection coating
- ▶ avoidance of the complete replacement of the filter container and extension of the running time
- ▶ high cost saving
- ▶ very good resistance to abrasion and substances



## Fixing indicators on chain links for quality assurance



### Description:

- ▶ roughening the surface by sanding
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ fixation of labels/indicators with NFC chips with the aid of WEICON Epoxy Minute Adhesive



Cleaner Spray S

▶ 500 ml  
10000147



Epoxy Minute Adhesive

▶ 24 ml  
10000133



### Advantage of our solution:

- ▶ withstands permanent exposure to seawater
- ▶ one year after bonding, continued perfect adhesion and surface quality was demonstrated in a test
- ▶ reading of the labels and thus traceability of the chain links permanently possible

## Renewal of the anti-slip coating on a sailing yacht



### Description:

- ▶ sanding the surface
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ applying WEICON GMK 2510 onto the prepared surface on deck as well as onto the underside of the new coating
- ▶ fixation of the new coating after 15 minutes flash-off time



Cleaner Spray S

▶ 500 ml  
10000147



GMK 2510

▶ 324 g  
10039649

▶ 690 g  
10034480

Work Package  
(consisting of 300  
g adhesive, 24 g  
bonding agent and  
wooden spatula)

Work Package  
(consisting of 650  
g adhesive, 40 g  
bonding agent and  
processing spatula)

### Advantage of our solution:

- ▶ very good adhesion of WEICON GMK 2510 to various materials
- ▶ fast and easy application
- ▶ deck can be walked on again immediately after attaching the new coatings
- ▶ permanent weather and ageing-resistant solution



## Polishing a hand sculpture at the Museum of the Future



### Description:

- ▶ polishing the hand with Alu Grinding Protection took over 2.5 weeks, 1,400 cans were used
- ▶ the installation at the Museum of the Future is around 6 m high and weighs around 5 t



Alu Grinding Protection

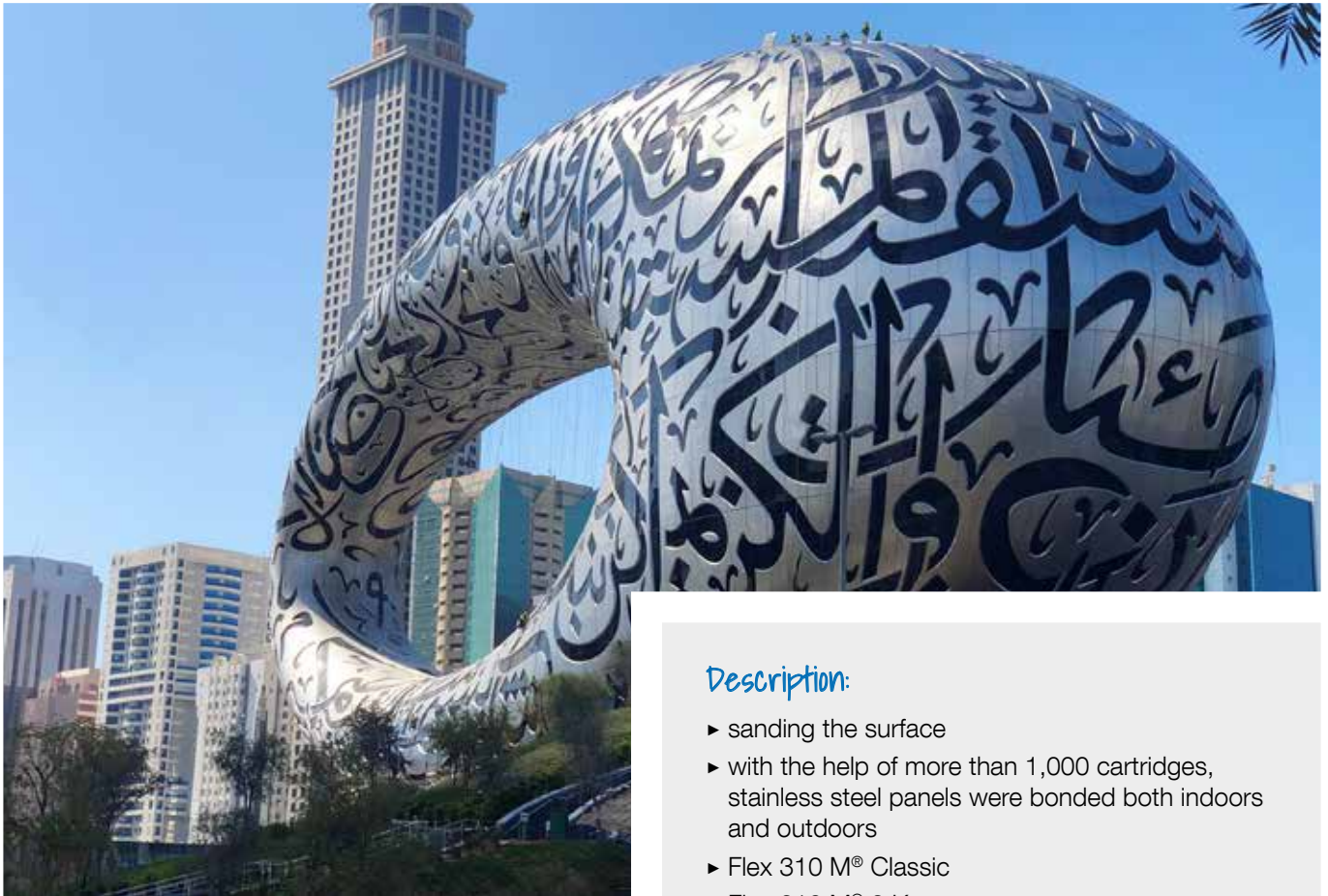
▶ 400 ml  
10018628



### Advantage of our solution:

- ▶ the use of Alu Grinding Protection Protection could increase the removal rate by up to 350 %

## Bonding façade elements at the Museum of the Future



### Description:

- ▶ sanding the surface
- ▶ with the help of more than 1,000 cartridges, stainless steel panels were bonded both indoors and outdoors
- ▶ Flex 310 M® Classic
- ▶ Flex 310 M® 2 K



Flex 310 M® Classic

- ▶ 310 ml 10010026 grey
- ▶ 310 ml 10010024 black



Flex 310 M® 2 K

- ▶ 250 ml 10027733 grey
- ▶ 400 ml 10062232 grey

### Advantage of our solution:

- ▶ the adhesive is in line with the design
- ▶ adhesive bonding does not cause any surface changes



## Repair and coating of a steel platform



### Description:

- ▶ repair of the heavily corroded platform of an evaporation condenser
- ▶ sanding off the coarse rust
- ▶ neutralisation of the rusty surfaces with WEICON Rust Converter
- ▶ coating with the epoxy resin system WEICON Ceramic BL



**WEICON Ceramic BL**

- ▶ 0,2 kg 10054394
- ▶ 0,5 kg 10000093
- ▶ 2,0 kg 10005233



**Rust Converter**

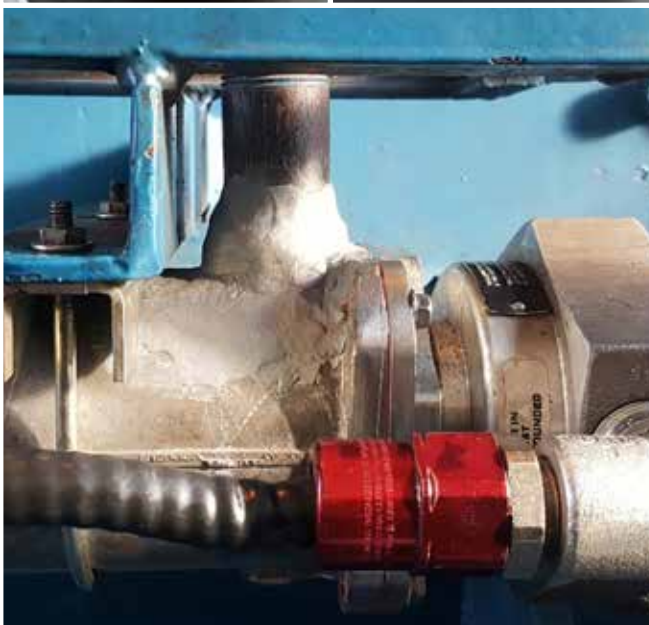
- ▶ 400 ml 10047458



### Advantage of our solution:

- ▶ easy application
- ▶ long-lasting protection against heavy stresses

## Repair of a leakage on a cooler



### Description:

- ▶ sealing the leakage on the cooler of a caterpillar
- ▶ cleaning the surfaces with WEICON Cleaner Spray S
- ▶ sealing with WEICON Repair Stick Aluminium



Cleaner Spray S

▶ 500 ml  
10000147



Repair Stick Aluminium

▶ 57 g    ▶ 115 g  
10010246    10007711

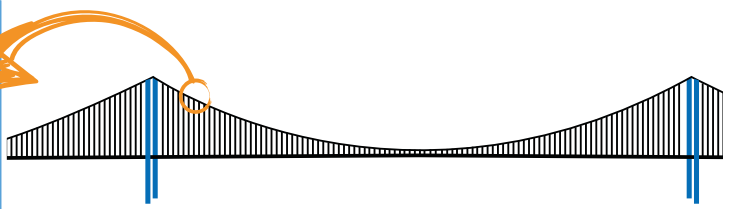
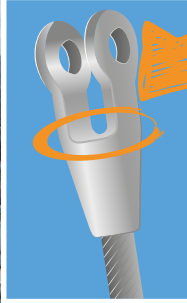
### Advantage of our solution:



- ▶ the service life is significantly extended by the use of the Repair Stick Aluminium
- ▶ the component does not need to be replaced



# Bonding sight glasses to monitor the suspension cables on the Çanakkale 1915 Bridge



### Description:

- ▶ sight glasses are sealed on the cable bulbs of the Çanakkale 1915 bridge
- ▶ the surfaces were first dried and cleaned with WEICON Surface Cleaner
- ▶ subsequent sealing with Flex 310 M® Crystal



Flex 310 M® Crystal

▶ 310 ml  
10033740



Surface Cleaner

▶ 150 ml 10024317    ▶ 400 ml 10024313



### Advantage of our solution:

- ▶ durable transparent sealing against rainwater
- ▶ high resistance to weathering, especially with regard to temperature changes
- ▶ the requirement of a silicone-free material is met by Flex 310 M® Crystal



## Bonding of HDPE piping with PVC parts



### Description:

- ▶ HDPE pipelines are connected with PVC branches during renovation work
- ▶ cleaning the components with WEICON Surface Cleaner
- ▶ the bonding was carried out with WEICON Easy-Mix PE-PP 50



Surface Cleaner

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



Easy-Mix PE-PP 50

- ▶ 50 ml
- 10058667
- transparent

Dispenser D50

- 10005237

Helix Mixing Nozzle  
A-System

- 10026925



### Advantage of our solution:

- ▶ easy application
- ▶ perfect mixing ratio thanks to Quadro Mixing Nozzle
- ▶ high-strength bonding of low surface energy plastics



## Sealing the boxer engine of a VW Beetle classic car



### Description:

- ▶ bonding and sealing the engine half-shells of a VW boxer engine
- ▶ additional sealing and securing of the stud bolt attachment
- ▶ the sealing was carried out with the flange sealing WEICONLOCK® AN 305-73



**AN 305-73**

- ▶ 50 ml  
10019945
- ▶ 200 ml  
10020005
- ▶ 300 ml  
10031472



### Advantage of our solution:

- ▶ permanent
- ▶ temperature-resistant
- ▶ safe

## Coating of jet pumps for sand backfill



### Description:

- ▶ two jet pumps were coated with the epoxy resin system WEICON Ceramic HC 220
- ▶ the pumps are used to build artificial islands in the sea
- ▶ at the beginning, the contours were restored with Plastic Metal WEICON WR2



#### WEICON Ceramic HC 220

- ▶ 0,2 kg 10060702
- ▶ 0,5 kg 10060705
- ▶ 2,0 kg 10060707



#### Cleaner Spray S

- ▶ 500 ml 10000147



#### WEICON WR2

- ▶ 0,2 kg 10054401
- ▶ 0,5 kg 10000087
- ▶ 2,0 kg 10000088

### Advantage of our solution:

- ▶ increasing the conveyor rate
- ▶ short downtime and fast recommissioning
- ▶ very cost-effective repair and maintenance
- ▶ durable wear protection
- ▶ long service life despite sand-water mixture



# Repair of a bridge bearing/counterfort



## Description:

- ▶ the counterforts in old railway and motorway bridge should be repaired and coated
- ▶ after years without maintenance, the parts were damaged (cracks, holes etc.); the counterforts have steel sheets inside (these parts did not show any structural problems)
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON Primer G
- ▶ application WEICON Urethane 85 – processing with cartridges
- ▶ repairing the damage and coating with urethane



Cleaner Spray S

▶ 500 ml  
10000147



Primer G

special bonding agent for urethanes for the pre-treatment of rubber and metal surfaces

▶ 50 g  
10057199

## Advantage of our solution:

- ▶ easy, cost-effective and durable maintenance of infrastructure
- ▶ no purchase of new parts necessary
- ▶ no long closure times of the bridge

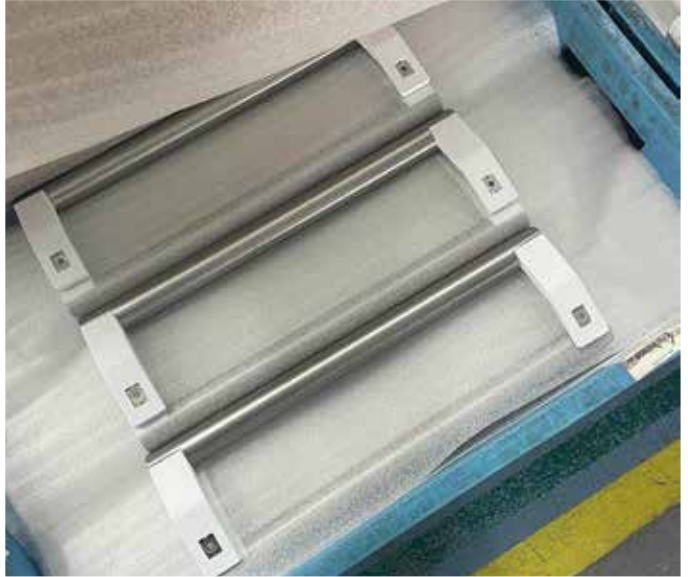


Urethane 85

Shore hardness: A 85

▶ 500 g      ▶ 540 g  
10057130      10057188  
Work Package      Cartridge

## Bonding refrigerator handles



### Description:

- ▶ bonding of aluminium and ABS polymer
- ▶ cleaning the components with WEICON Surface Cleaner
- ▶ application of WEICON Flex 310 M® Super-Tack
- ▶ joining the parts



Surface Cleaner

▶ 150 ml    ▶ 400 ml  
10024317    10024313



Flex 310 M® Super-Tack

▶ 290 ml  
10023929  
grey



### Advantage of our solution:

- ▶ fast, cost-effective adhesive bond in line with the design
- ▶ alternative to screws, no visible joints



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