



WEICON

# APPLICATIONS AND PRODUCTS I



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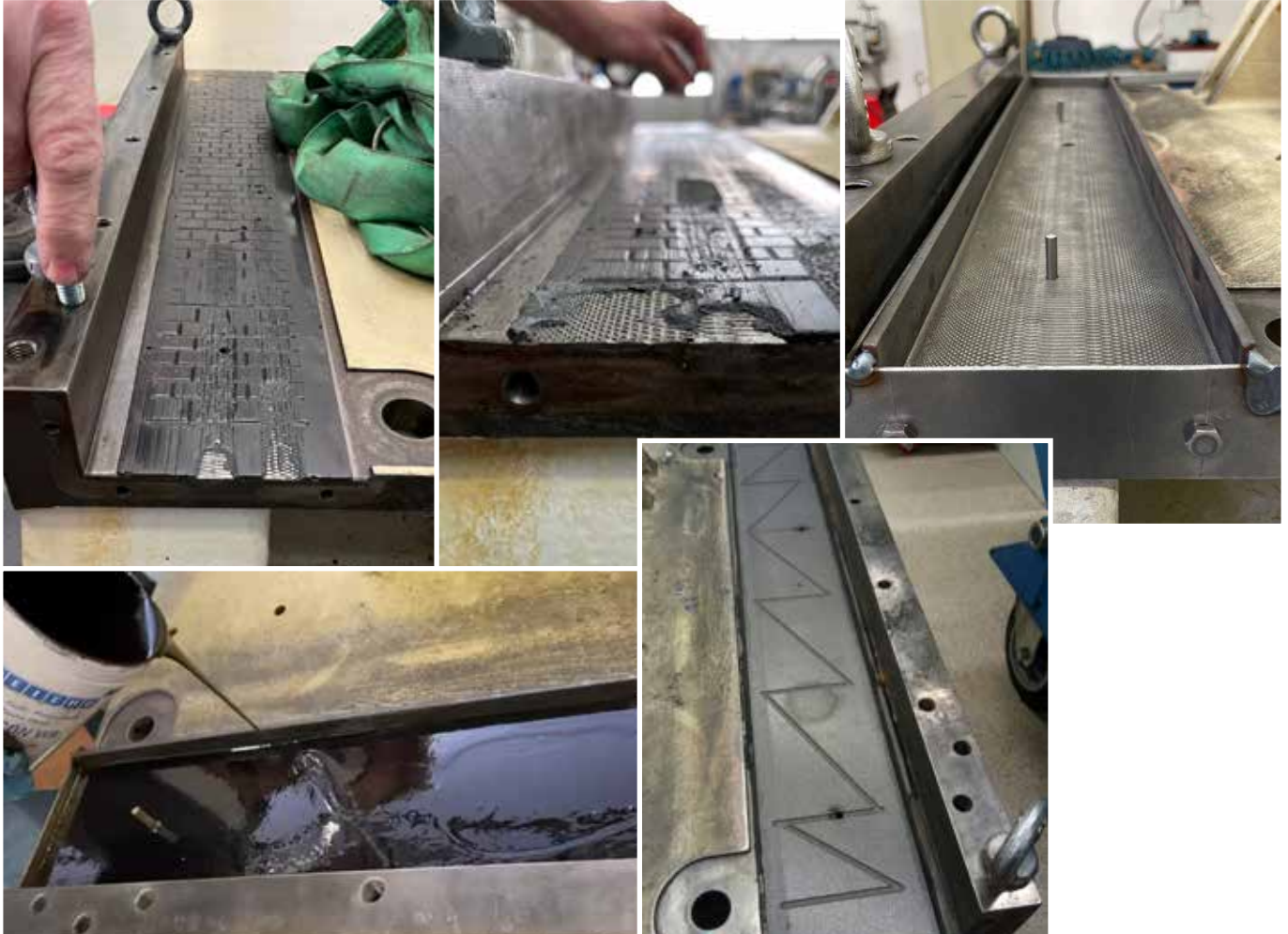
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# ALWAYS THE RIGHT SOLUTION

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.

# Restoring a tool machine bed



## Description:

- ▶ removal of the initial cast coating by heating to above 200 °C
- ▶ application of a new coating by casting the epoxy resin system WEICON WR
- ▶ important: slight overfilling of the space to be filled
- ▶ after curing mechanical processing of the surface by milling and inserting cooling ducts



### WEICON WR

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



## Advantage of our solution:

- ▶ no replacement of the tool machine necessary thanks to cost-effective repair

VIDEO



## Repair of the fan housing of a ventilator



### Description:

- ▶ pre-treatment with sandblasting (SA 2½)
- ▶ replacing the missing material surface by inserting a stainless steel sheet
- ▶ cleaning the entire surfaces to be coated with WEICON Cleaner Spray S
- ▶ sanding the stainless steel sheet to improve surface roughness
- ▶ application of WEICON A to build up basic coating on the inside and outside
- ▶ after curing: smoothing and sanding the excess material
- ▶ WEICON Cleaner Spray S
- ▶ application of WEICON Ceramic BL as finish
- ▶ for visual upgrading and as corrosion protection application of WEICON Rust Protection 2000 Plus



**Cleaner Spray S**

▶ 500 ml  
10000147



**WEICON A**

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



**Rust Protection 2000 PLUS**

▶ 400 ml  
10021354  
silver grey



**WEICON Ceramic BL**

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

### Advantage of our solution:

- ▶ cost-effective repair and avoiding a replacement with long delivery times

## Bonding a logo to a sign



### Description:

- ▶ cleaning both bonding surfaces with WEICON Surface Cleaner
- ▶ application of WEICON Primer K 200 to the plastic surface of the sign
- ▶ application of WEICON Mounting Tape as spacer for the bonding gap and to support the initial adhesive strength
- ▶ application of WEICON Flex 310 M® Super-Tack
- ▶ joining the parts



**Surface Cleaner**

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



**Mounting Tape**

10050551  
grey



**Primer K 200**

▶ 250 ml  
10023567



**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



## Repair of a drive shaft



### Description:

- ▶ reducing the drive shaft to an undersize of > 3 mm
- ▶ creating a barrier (tape) to remove access material in uncured state
- ▶ circumferential application of WEICON HB 300 in a layer thickness of approx. > 5 mm
- ▶ after curing (24 h), the repaired area is reduced to the desired size



### WEICON HB 300

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

VIDEO

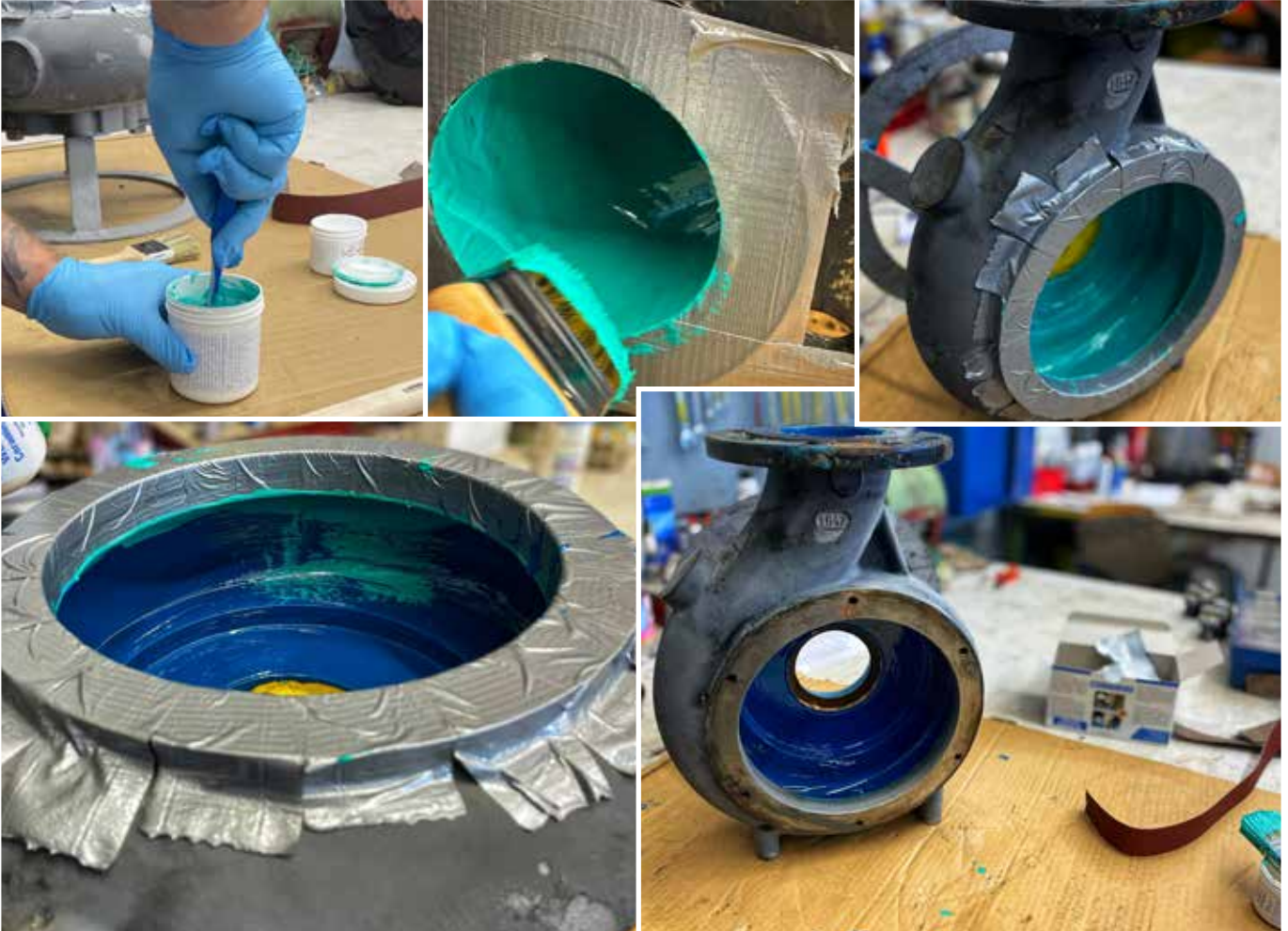


### Advantage of our solution:

- ▶ fast and cost-effective repair
- ▶ avoiding long delivery times
- ▶ fast recommissioning of the system
- ▶ cost savings of approx. 8,000 EUR compared to a replacement



# Coating a pump housing



### Description:

- ▶ cleaning with WEICON Cleaner Spray S
- ▶ first application with WEICON GL as base coat and control layer
- ▶ second application with WEICON Ceramic BL as wear protection



**WEICON GL**

▶ 0,2 kg 10057791   ▶ 0,5 kg 10057714   ▶ 1,0 kg 10057800

**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:

- ▶ better adhesion of the wear protection layer WEICON Ceramic BL due to filling the pinholes with WEICON GL
- ▶ cost-effective repair
- ▶ no replacement of the component necessary





## Production of axle boots



### Description:

- ▶ cleaning the mould with WEICON Cleaner Spray S
- ▶ pre-treatment with WEICON Mold Release Agent
- ▶ casting the axle boots with WEICON Urethane 45

### Cleaner Spray S

- ▶ 500 ml
- ▶ 10000147



### Urethane 45

Shore hardness: A 45

- ▶ 500 g
- ▶ 10022361

VIDEO



### Advantage of our solution:

- ▶ cost-effective reproduction of various geometric shapes



## Creating a ceramic abrasion protection in pipe connections



### Description:

- ▶ cleaning with Cleaner Spray S
- ▶ sandblasting (SA 2 ½)
- ▶ repeated cleaning with Cleaner Spray S
- ▶ inserting/bonding of the ceramics with the epoxy resing system WEICON WAL 04



**WEICON WAL 04**

▶ 2,0 kg  
10020990

**Cleaner Spray S**

▶ 500 ml  
10000147



### Advantage of our solution:

- ▶ strong adhesion between WAL 04 and the steel component
- ▶ restoration of the abrasion protection

## Repair of conveyor belts in a quartz mine



### Description:

- ▶ removing coarse dirt
- ▶ roughening and levelling the damaged areas with an angle grinder (rasp disc or cup wheel)
- ▶ cleaning the surface with WEICON Cleaner Spray S
- ▶ mixing and applying WEICON Primer G with a paint brush
- ▶ allow WEICON Primer G sufficient time to flash off
- ▶ depending on the container application of WEICON Urethane 85
- ▶ smoothing the surface with WEICON Contour Spatula Flexy

### Cleaner Spray S

- ▶ 500 ml  
10000147



### Belt Repair-Kit 550

- ▶ 500 g + Primer G 50 g  
10055014



### Belt Repair-Kit 590

- ▶ 540 g + Primer G 50 g  
10052425

### Dispenser 2C 10:1

Recommended for the 2-component 540g cartridge

10057514

VIDEO



### Advantage of our solution:

- ▶ very cost-effective way to restore the functioning of the conveyor belts and thus extension of the service life
- ▶ versatile application possibilities

## Bonding a wheel and gearwheel in a gravel plant



### Description:

- ▶ cleaning with WEICON Surface Cleaner
- ▶ high-alloy and hardened steels are bonded with WEICONLOCK AN 306-38 Retaining Cylindrical Assemblies, applied in a circumferential and full-surface bead



**Surface Cleaner**

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



**AN 306-38**

- ▶ 10 ml 10030478
- ▶ 20 ml 10016443
- ▶ 50 ml 10017888
- ▶ 200 ml 10020027



### Advantage of our solution:

- ▶ high frictional connection with high radial and axial forces

## Repair of stirring units in a gold mine



### Description:

- ▶ abrasion on stirring units/propellers caused by sand and stones
- ▶ sandblasting (SA 21/2) and cleaning with Cleaner Spray S
- ▶ reconditioning of the propeller blades by coating with WEICON WP
- ▶ 16 kilograms were used



**Cleaner Spray S**

- ▶ 500 ml
- ▶ 10000147



**WEICON WP**

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

### Advantage of our solution:



- ▶ restoring the efficiency of the stirring units
- ▶ durable abrasion protection for longer service life

## Repair of the end cover of a seawater filter on a yacht



### Description:

- ▶ repairing damages on the end covers, which had been caused by mounting errors
- ▶ cutting out and removing the damaged area
- ▶ additional roughening and sanding of material residues with an angle grinder
- ▶ enclosing the damaged area with a common tape
- ▶ cleaning the sanded surface with WEICON Cleaner Spray S
- ▶ even casting of the WEICON Urethane 80



Cleaner Spray S

▶ 500 ml  
10000147

### Advantage of our solution:

- ▶ fast on-site repair during ongoing use of the yacht
- ▶ high layer build-up and wear protection thanks to the self-levelling WEICON Urethane 80



Urethane 80

Shore hardness: A 80

▶ 500 g  
10012368

## Lining a machine/robot foot

**Description:**

- ▶ adjusting/ leveling the foot
- ▶ building a formwork
- ▶ sealing the formwork with WEICON Flex 310 M® Classic
- ▶ mixing and casting WEICON CBC until reaching the fill level
- ▶ 36 kilograms WEICON CBC were used

**WEICON CBC**  
Chocking Backing Compound

- ▶ 0,5 kg  
10064790
- ▶ 3,0 kg (2,0 l)  
10045020
- ▶ 10,0 kg (6,6 l)  
10032939

**Flex 310 M® Classic**

- ▶ 310 ml  
10010026  
grey

**Advantage of our solution:**

- ▶ complete force and form closure through casting
- ▶ precise levelling of the surface of the foot
- ▶ very high impact strength and damping capacity of vibrations

## Bonding polyethylene strips to aluminium rails



### Description:

- ▶ polyethylene strips are bonded to aluminium rails
- ▶ the PE layer serves as a sliding guide for plastic strips (strapping technology)
- ▶ due to the small bonding gap and the material properties of the polyethylene, WEICON CA-Primer was used in combination with WEICON Contact VA 30 Black



**Contact Primer  
for polyolefins**

▶ 10 ml  
10000275



**VA 30 Black**

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



### Advantage of our solution:

- ▶ high-strength bond despite low surface energy plastic



## Bonding the inner thread of a pneumatic hammer



### Description:

- ▶ cleaning the thread surfaces on the inside and outside with WEICON Surface Cleaner
- ▶ application of WEICONLOCK AN 305-77 Thread Sealing
- ▶ assembly of both components



Surface Cleaner

▶ 150 ml 10024317    ▶ 400 ml 10024313



AN 305-77

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

### Advantage of our solution:



- ▶ securely locked screw joints during use of the pneumatic hammer
- ▶ easy disassembly in case maintenance is required
- ▶ the hammer works under continuous load at 1,500 strokes per minute

# Levelling PUR wear protection plates in mill construction



## Description:

- ▶ providing the joint area of the wear protection plates with a V-cut
- ▶ cleaning with WEICON Brake Cleaner
- ▶ masking the areas left and right of the joint with tape to remove excess material
- ▶ application of WEICON Primer G (observe flash-off time!)
- ▶ application of WEICON Urethane 85 from double cartridge with mixing nozzle
- ▶ levelling with a spatula
- ▶ accessories: Dispenser 2C 10:1 490 ml



### Urethane 85

**Shore hardness: A 85**

▶ 500 g  
10057130  
Work Package

▶ 540 g  
10057188  
Cartridge

### Primer G

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

▶ 50 g  
10057199

### Cleaner Spray S

▶ 500 ml  
10000147

### Dispenser 2K 10:1

Recommended for the 2-component 540g cartridge

10057514

## Advantage of our solution:

- ▶ easy application
- ▶ even transition on the joint area, thus less surface for wear to attack
- ▶ more efficient rotation in the mill



## Mounting stoneware sewers with plastic pipes



### Description:

- ▶ installation of a dosing system due to the large material consumption
- ▶ gap-filling and bonding with generous application of WEICON Flex 310 M® 2 K
- ▶ with this type of drum dosing system, the adhesive is mixed only in the mixing nozzle

#### Flex 310 M® 2 K

- ▶ 250 ml
- ▶ 10027733  
grey
- ▶ special mixing nozzle  
10027692



### Advantage of our solution:

- ▶ compared to other adhesives: elasticity, tolerance compensation, good sealing effect, high adhesive strength and curing independent of ambient conditions thanks to 2C system
- ▶ adhesive is only mixed in the mixing nozzle

# Repair of a pump impeller



### Description:

- ▶ surface pre-treatment with sandblasting (SA 2 ½)
- ▶ cleaning the entire surface with WEICON Cleaner Spray S
- ▶ application of WEICON ST to restore the impeller strength
- ▶ sanding the entire repaired surface
- ▶ cleaning the sanded surface with WEICON Cleaner Spray S
- ▶ application of WEICON Ceramic BL as final coating/finish (in two layers)



**Cleaner Spray S**

▶ 500 ml  
10000147



**WEICON ST**

▶ 0,2 kg 10054396   ▶ 0,5 kg 10000900   ▶ 2,0 kg 10000903



**WEICON Ceramic BL**

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



### Advantage of our solution:

- ▶ cost-effective repair instead of replacement
- ▶ durable protection against cavitation



## Repairing the foundation of a conveyor system in a copper mine



### Description:

- ▶ removing loose foundation parts
- ▶ creating formwork for the area to be repaired
- ▶ casting WEICON CBC into the formwork
- ▶ after curing: removing the formwork
- ▶ 1,700 kilograms WEICON CBC were used



### WEICON CBC Chocking Backing Compound

- ▶ 0,5 kg  
10064790
- ▶ 3,0 kg (2,0 l)  
10045020
- ▶ 10,0 kg (6,6 l)  
10032939

### Advantage of our solution:

- ▶ increasing the safety and restoring the stability of the conveyor system

# Bonding the cooler of an electric race car



## Description:

- ▶ roughening the surface with emery cloth
- ▶ cleaning with WEICON Surface Cleaner
- ▶ application of WEICON Primer E 500 with clean, lint-free cloth
- ▶ leave Primer to flash off for approx. 10 to 20 minutes
- ▶ application of WEICON Black-Seal with Press Pack
- ▶ join the parts



**Surface Cleaner**

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



**Primer E 500**

- ▶ 250 ml 10035220



**Black-Seal Special Silicone**

- ▶ 200 ml 10000763 Presspack

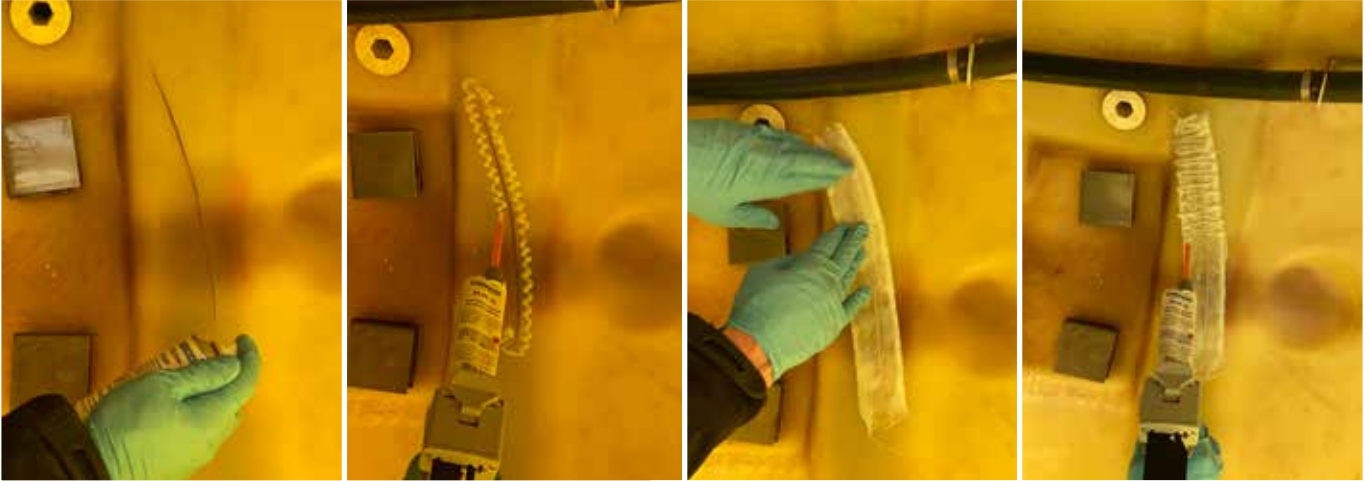


## Advantage of our solution:

- ▶ easy application for building prototypes and small batches
- ▶ high temperature resistance
- ▶ no material distortion as caused by welding or soldering
- ▶ compensates production tolerances



# Repair of a polyethylene tank used in agriculture



## Description:

- ▶ cleaning with WEICON Surface Cleaner
- ▶ application of WEICON Easy-Mix PE-PP 45
- ▶ application of the Glass Fibre Cloth Tape
- ▶ second application of WEICON Easy-Mix PE-PP 45 to the tape
- ▶ spreading the adhesive by hand (gloves)
- ▶ curing: 24 hours at room temperature



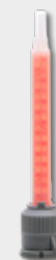
### Surface Cleaner

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



### Easy-Mix PE-PP 45

- ▶ 45 ml
- 10057687
- pale yellow, transparent



### Dispenser PE-PP

10023333

### Mixing Nozzle PE-PP

10023115

### Special Piston

10023341

To convert the Dispenser Easy-Mix D 50 to Easy-Mix PE-PP 45

## Advantage of our solution:

- ▶ fast and cost-effective repair
- ▶ preventing environmental damages
- ▶ replacement of the tank not necessary

# Repair and restoration of pumps in a tomato factory



## Description:

- ▶ surface pre-treatment with sandblasting (SA 2½)
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON WR2 to fill cavitation damages
- ▶ final coating as wear protection with WEICON Ceramic BL



**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

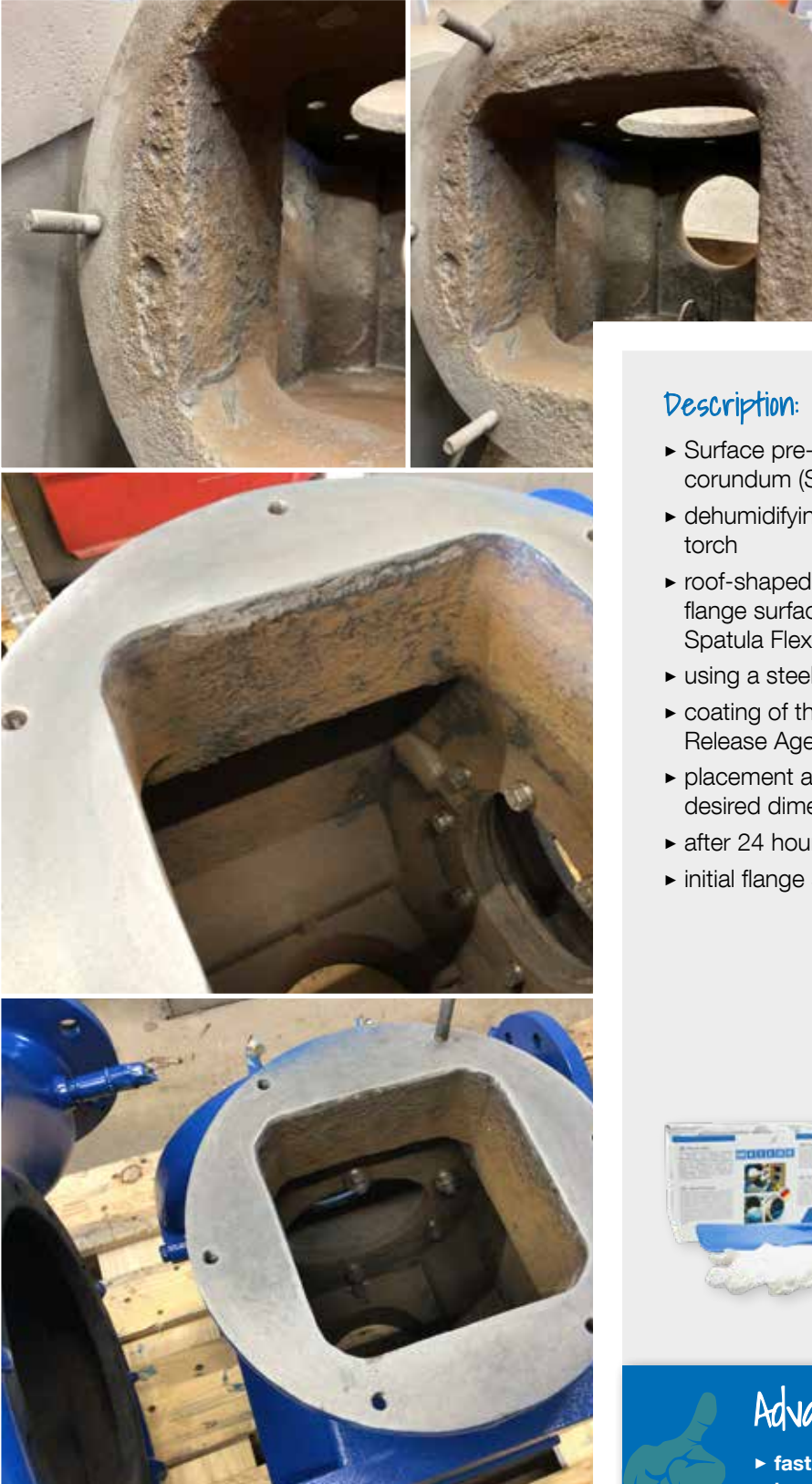


## Advantage of our solution:

- ▶ restoration of the full pump capacity
- ▶ avoiding higher costs of 1,800 EUROS



## Restoring a corroded flange surface



### Description:

- ▶ Surface pre-treatment by sandblasting with corundum (SA 2½)
- ▶ dehumidifying the surface with acetylene oxygen torch
- ▶ roof-shaped application of WEICON HB 300 to the flange surface with the help of WEICON Contour Spatula Flexy
- ▶ using a steel sheet to copy the flange surface
- ▶ coating of the steel sheet with WEICON Mould Release Agent Wax P 500
- ▶ placement and assembly of the steel sheet to the desired dimension
- ▶ after 24 hours cure time: removal of the steel sheet
- ▶ initial flange surface is restored



Mould Release Agent Wax P 500

- ▶ 150 g 10026712
- ▶ 500 g 10026171



WEICON HB 300

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

### Advantage of our solution:

- ▶ fast and easy repair solution compared to long delivery times and replacement costs
- ▶ extension of the service life of the entire component

# Repair of a shell and tube cooler



### Description:

- ▶ pre-treatment with sandblasting (SA 2½)
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ first repair of damaged parts with WEICON HB 300
- ▶ final coating as wear protection with WEICON Ceramic BL



**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



### Advantage of our solution:

- ▶ recommissioning of the shell and tube cooler
- ▶ avoiding a replacement, thus saving costs

## Inner coating of pumps



### Description:

- ▶ pre-treatment with sandblasting
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ repairing the cavitation and corrosion damages with WEICON HB 300
- ▶ final coating as wear protection with WEICON Ceramic BL

#### 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

### Advantage of our solution:

- ▶ repairing worn pumps
- ▶ additional protection for new pumps
- ▶ cost-effective repair and long service life

## Reproduction of a damaged damper foot



### Description:

- ▶ production of a three-piece mould to recast the worn damper foot
- ▶ wetting of the mould with WEICON Mould Release Agent Liquid F 1000
- ▶ mixing of WEICON Urethane 60 and pouring into the mould (avoid air inclusions!)
- ▶ demoulding of the component after 24 h curing and installing it in the system



Mould Release Agent Liquid F 1000

▶ 1 L  
10026167



Urethane 60

Shore hardness: A 60

▶ 500 g  
10022363



### Advantage of our solution:

- ▶ complete restoration of the vibration and shock absorption
- ▶ replacement, delivery times and thus downtime costs could be avoided

## Repair of a tank lid



### Description:

- ▶ removal of rust by sanding
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ sealing the damaged area with WEICON A



WEICON A

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



Cleaner Spray S

- ▶ 500 ml 10000147

### Advantage of our solution:

- ▶ avoiding welding
- ▶ fast, easy repair
- ▶ additional protective layer against new corrosion

## Repair of the adapter sleeve of a shock absorber



### Description:

- ▶ repair of the ring broken due to wrong assembly
- ▶ milling of small grooves with a diamond drill for gap bridging
- ▶ cleaning the surface with WEICON Cleaner Spray S
- ▶ generous application of WEICON Easy-Mix HT 180
- ▶ inserting the broken off piece
- ▶ removing the excess adhesive



**Easy-Mix HT 180**

▶ 50 ml  
10044884



**Cleaner Spray S**

▶ 500 ml  
10000147



### Advantage of our solution:

- ▶ alternative to welding
- ▶ cost-effective repair
- ▶ avoiding the replacement of the component

## Bonding illuminated signs



### Description:

- ▶ sealing the aluminium
- ▶ cleaning with WEICON Surface Cleaner
- ▶ sealing the housing corners of the light box with WEICON Flex 310 M® HT 200
- ▶ painting/powder coating the light box
- ▶ application of WEICON Primer K 200 in the letter area
- ▶ application of Flex 310 M® Classic
- ▶ inserting the illuminated signs (plexiglass)



#### Surface Cleaner

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313

#### Primer K 200

- ▶ 250 ml 10023567



#### Flex 310 M® HT 200

- ▶ 310 ml 10031149
- grey



#### Flex 310 M® Classic

- ▶ 310 ml 10002576
- white

VIDEO



### Advantage of our solution:

- ▶ alternative to welding / no material distortion due to temperature
- ▶ elastic connection of the lighting elements
- ▶ high weather resistance (changes in temperature)

## Sealing and attaching sockets in feed containers made of polyethylene



### Description:

- ▶ drilling holes and cutting threads in polyethylene feed containers
- ▶ cleaning the thread of socket and valve with WEICON Surface Cleaner
- ▶ application of WEICON Easy-Mix PE-PP 50
- ▶ screwing in the socket and valve



#### Surface Cleaner

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



#### Easy-Mix PE-PP 50

- ▶ 50 ml 10058667
- pale yellow, transparent



#### Dispenser D50

10005237

#### Quadro Mixing Nozzle

10029793



### Advantage of our solution:

- ▶ high sealing effect
- ▶ good resistance to loosening
- ▶ easy and cost-effective assembly



## Restoration of the rubber protective coating of a hydraulic line



### Description:

- ▶ cutting out the damaged area
- ▶ masking the repair area to remove excess material before curing
- ▶ cleaning the surfaces with WEICON Cleaner Spray S
- ▶ application of WEICON Primer G to the repair area
- ▶ full-surface application of WEICON Urethane 85 to surface to be repaired



#### 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



#### Urethane 85

Shore hardness: A 85

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

### Advantage of our solution:

- ▶ restoration of the protective coating
- ▶ safe and permanent operation of the system
- ▶ high adhesive strength and elasticity

## Bonding of salt stones in a dry-aging cooling chamber



### Description:

- ▶ cleaning the walls with WEICON Surface Cleaner
- ▶ application of WEICON Flex 310 M® Classic
- ▶ bonding the salt stones



**Surface Cleaner**

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



**Flex 310 M® Classic**

- ▶ 310 ml 10002576 white



### Advantage of our solution:

- ▶ reliable adhesive with ISEGA certificate for use in the food industry
- ▶ easy assembly

## Restoration of the edge mill of a pellet press



### Description:

- ▶ sandblasting of the press container/edge mill
- ▶ cleaning with WEICON Cleaner Spray S
- ▶ application of WEICON WR2 with spatula and smoothing trowel
- ▶ subsequent curing for 24 h at 60°C (industrial oven)
- ▶ sanding the surface of the applied material WEICON WR2
- ▶ application of the final coating with WEICON Ceramic BL with a customary foam roller



**WEICON WR2**

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



**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:



- ▶ maintenance and restoration of worn system components
- ▶ service life extension and sustainable use

# Repair of a roller fender on a quay wall



courtesy and copyright of ShibataFenderTeam

## Description:

- ▶ damages on a roller fender on a quay wall
- ▶ application of WEICON Primer G
- ▶ filling the damaged areas with WEICON Urethane 85



### Urethane 85

Shore hardness: A 85

▶ 500 g

10057130  
Work Package

▶ 540 g

10057188  
Cartridge



### Primer G

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

▶ 50 g

10057199

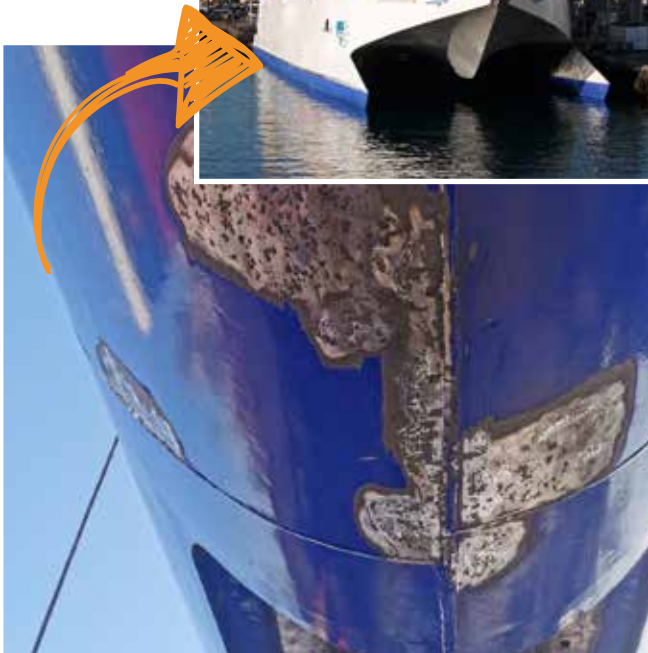


## Advantage of our solution:

- ▶ fast and cost-effective repair solution
- ▶ excellent mechanical strength and elasticity
- ▶ durable wear protection



## Repair of a catamaran



### Description:

- ▶ sandblasting (SA 21/2) of the damaged areas
- ▶ application of WEICON HP
- ▶ final coating after curing with WEICON Ceramic BL
- ▶ 48 kg WEICON HP and 36 kg WEICON Ceramic BL were used on an area of 16 square metres



#### WEICON HP

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



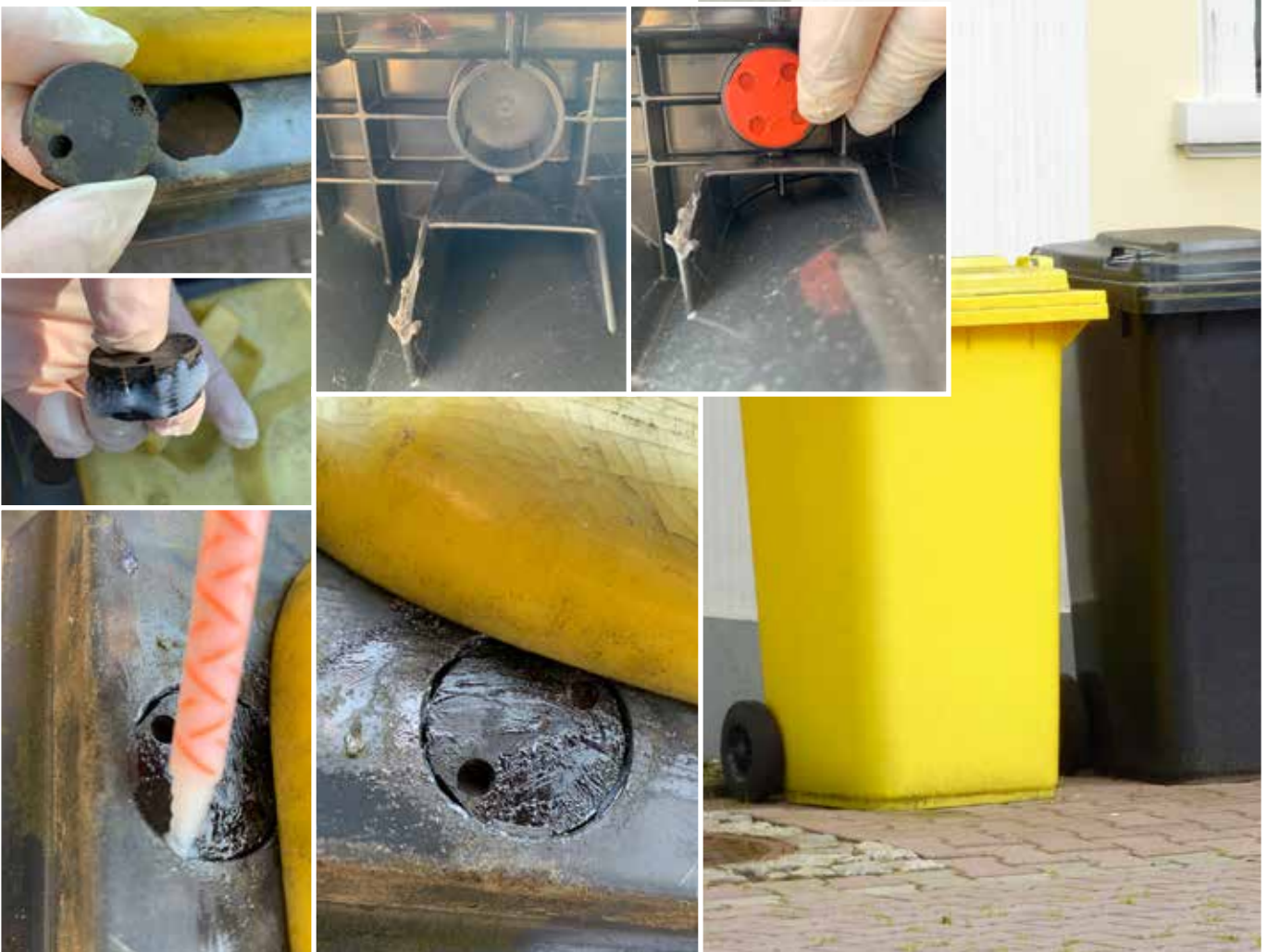
#### WEICON Ceramic BL

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

### Advantage of our solution:

- ▶ fast and precise repair
- ▶ reconditioning of the hull surface
- ▶ strengthening the material against new cavitation damages
- ▶ efficiency of the hull remains intact

# Bonding ID chips to chip nest on waste bins



### Description:

- ▶ cleaning the surfaces with WEICON Surface Cleaner
- ▶ bonding the transponder chips with WEICON Easy-Mix PE-PP 45



**Surface Cleaner**

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



**Easy-Mix PE-PP 45**

- ▶ 45 ml 10057687

**Dispenser PE-PP**

- 10023333

**Mixing Nozzles PE-PP**

- 10023115

**Special Piston**

- 10023341

To convert the Dispenser Easy-Mix D 50 to Easy-Mix PE-PP 45



### Advantage of our solution:

- ▶ high-strength, impact-resistant bonding of the low surface energy plastic polyethylene
- ▶ fast, durable and easy attachment of the chip



## Bonding stainless steel sheets to aluminium



### Description:

- ▶ cleaning with Cleaner Spray S
- ▶ full-surface bonding of the stainless steel sheets to the aluminium surface with WEICON Flex 310 M® Classic



Cleaner Spray S

▶ 500 ml  
10000147



Flex 310 M® Classic

▶ 310 ml  
10010026  
grey

### Advantage of our solution:

- ▶ visually appealing bond
- ▶ high weather resistance
- ▶ high elasticity corresponding to thermal expansion

## Gap compensation on a press plate in a quarry



### Description:

- ▶ the support surface of a burst, 400kg heavy press plate did not show 100% force closure anymore
- ▶ previous solution: replacing the press plate every two months
- ▶ cleaning with WEICON Cleaner S
- ▶ generous application of WEICON HB 300 to the surface and fixings



**Cleaner S**

- |          |          |          |          |
|----------|----------|----------|----------|
| ▶ 1 L    | ▶ 5 L    | ▶ 10 L   | ▶ 28 L   |
| 10007611 | 10000347 | 10000348 | 10053455 |

### Advantage of our solution:

- ▶ gap filling with WEICON HB 300
- ▶ avoiding having to replace the press plate
- ▶ cost savings of approx. 35,000 € – for the new press plates

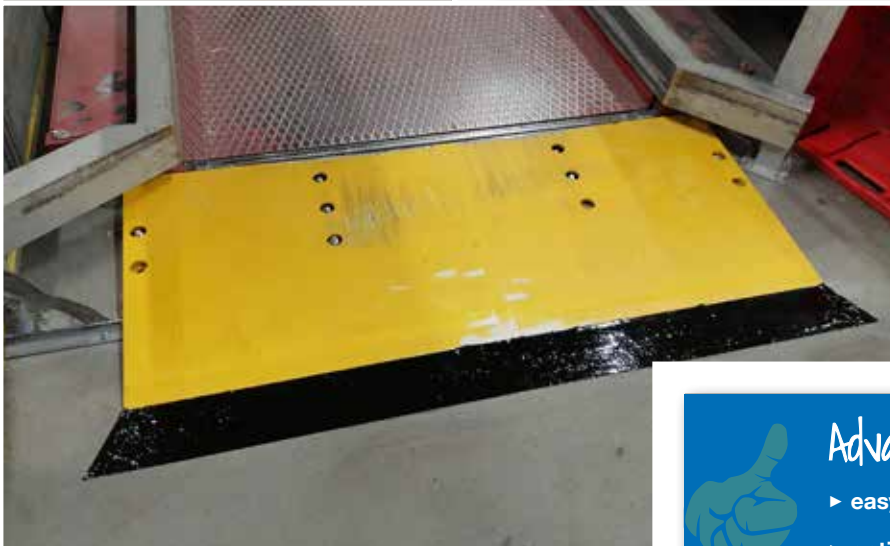
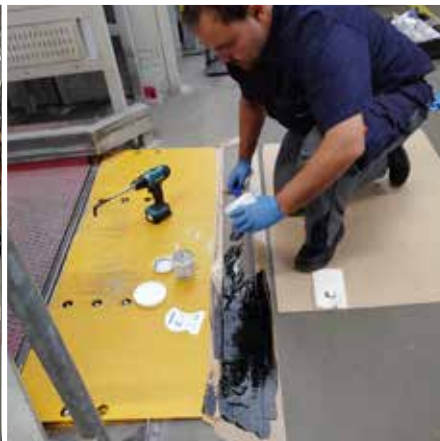


**WEICON HB 300**

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



## Levelling an access ramp on a drive-through platform scale



### Description:

- ▶ roughening the concrete surface with an angle grinder and subsequent suction of the grinding dust
- ▶ application of WEICON Primer G
- ▶ after allowing the primer to flash off for 20 minutes, application of WEICON Urethane 85
- ▶ levelling the surface (ramp angle) with a gage



### Belt Repair-Kit 590

- ▶ 540 g + Primer G 50 g
- 10052425

VIDEO



### Advantage of our solution:

- ▶ easy and quiet access
- ▶ optimising work safety
- ▶ minimising wear and tear on the wheels of industrial trucks

## Bonding and coating a chair suspension



### Description:

- ▶ complete sanding of the hot-dip galvanised surface with sandpaper
- ▶ cleaning with WEICON Surface Cleaner
- ▶ bonding the suspension with WEICON Easy-Mix RK-7100
- ▶ coating the suspension with WEICON Brushable Liquid Zinc Paint for an additional protective layer

### Advantage of our solution:

- ▶ fast-curing, high-strength bond with residual elasticity
- ▶ particularly easy to apply thanks to the dosing system – even overhead
- ▶ The Brushable Liquid Zinc Paint serves as barrier layer and protects the adhesive bond against corrosion



Surface Cleaner

▶ 150 ml 10024317 ▶ 400 ml 10024313



Easy-Mix RK-7100

▶ 50 ml 10030534

# Sealing a leak in a petroleum line



### Description:

- ▶ sanding the damaged area
- ▶ cleaning with WEICON Cleaner S
- ▶ closing and sealing the damaged area with WEICON Repair Stick Steel
- ▶ stabilising, sealing and strengthening the damaged area with WEICON Repair-Tape



### Cleaner S

- ▶ 1 L [10007611](#)
- ▶ 5 L [10000347](#)
- ▶ 10 L [10000348](#)
- ▶ 28 L [10053455](#)



### Pipe Repair-Kit

- 5/15**
  - ▶ 5 cm x 1,5 m [10055737](#)
- 5/35**
  - ▶ 5 cm x 3,5 m [10055738](#)
- 10/35**
  - ▶ 10 cm x 3,5 m [10055740](#)



### Advantage of our solution:

- ▶ fast and easy repair during ongoing operation
- ▶ avoiding welding and thus reducing potential danger (fire /explosion protection)
- ▶ solution resistant to pressure and substances

## Bonding a door locking system in a bus



### Description:

- ▶ pre-treatment with WEICON Cleaner Spray S
- ▶ bonding all components of the door locking system with WEICON Easy-Mix PE-PP 45 – both PP to PP and PP to glass



Cleaner Spray S

▶ 500 ml  
10000147



Easy-Mix PE-PP 45

▶ 45 ml  
10057687

Dispenser PE-PP

10023333

Mixing Nozzles PE-PP

10023115

Special Piston

10023341

To convert the Dispenser Easy-Mix D 50 to Easy-Mix PE-PP 45



### Advantage of our solution:

- ▶ fast and easy solution for demanding bonding of low surface energy plastics
- ▶ the adhesive bond easily withstands high stresses, such as opening and closing of the doors

## Production of truck axles



### Description:

- ▶ cleaning with WEICON Cleaner Spray S
- ▶ securing the screws on the differential gear with WEICONLOCK® AN 302-71
- ▶ sealing the differential with WEICON Black-Seal
- ▶ sealing the vehicle components with WEICON Flex 310 M® 2 K

#### Cleaner Spray S

- ▶ 500 ml  
10000147



#### AN 302-71

- ▶ 20 ml  
10017326
- ▶ 50 ml  
10017886
- ▶ 200 ml  
10019980



#### Flex 310 M® 2 K

- ▶ 250 ml  
10027733  
grey
- ▶ Special mixing nozzle  
10027692



#### Black-Seal Special Silicone

- ▶ 200 ml  
10000763  
Presspack



### Advantage of our solution:

- ▶ the high-strength threadlocker, which is hard to disassemble and has a medium viscosity, withstands very high stresses
- ▶ good resistance of the silicone WEICON Black-Seal to gear oil
- ▶ full-surface bonding and bridging bonding gaps up to ten millimetres with WEICON Flex 310 M® 2 K

# Bonding roller cones



### Description:

- ▶ roughening the inside of the rollers with a drill and a brush attachment
- ▶ cleaning the roughened surfaces with WEICON Surface Cleaner
- ▶ use of WEICONLOCK AN 306-30 for Retaining Cylindrical Assemblies



**Surface Cleaner**

- ▶ 150 ml 10024317
- ▶ 400 ml 10024313



**AN 306-30**

- ▶ 20 ml 10016438
- ▶ 50 ml 10017887
- ▶ 200 ml 10020025

### Advantage of our solution:



- ▶ adhesive withstands high rotation speeds and thus large torsion forces
- ▶ good suitability of WEICONLOCK AN 306-30 for the passive material combination aluminium and stainless steel
- ▶ easy and precise application thanks to the ergonomic WEICON Pen-System



## Repair of oil pipelines



### Description:

- ▶ corrosion damages due to stony layers and extreme temperature fluctuations on the pipes
- ▶ cleaning the damaged areas with WEICON Cleaner Spray S
- ▶ application of nearly one ton of WEICON HB 300 to 100 kilometres pipeline
- ▶ after curing additional wrapping with protective foil or coating with carbon fibre



Cleaner Spray S

▶ 500 ml  
10000147



WEICON HB 300

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

### Advantage of our solution:

- ▶ inexpensive and long-lasting solution
- ▶ on-site repair – despite the ambient temperature and temperature of the streaming oil
- ▶ fast and easy application of WEICON HB 300

## Repair of the piping of a limestone filter system



### Description:

- ▶ pipes lined with rubber on the inside
- ▶ damages caused by abrasion due to the limestones
- ▶ first, application of WEICON WP in combination with steel plates
- ▶ then additional fixation of the damaged areas with WEICON Pipe Repair-Kit



**WEICON WP**

- ▶ 0,2 kg [10054399](#)
- ▶ 2,0 kg [10032320](#)
- ▶ 10,0 kg [10032939](#)



**WEICON Pipe Repair-Kit**

- 5/15**  
▶ 5 cm x 1,5 m [10055737](#)
- 5/35**  
▶ 5 cm x 3,5 m [10055738](#)
- 10/35**  
▶ 10 cm x 3,5 m [10055740](#)



### Advantage of our solution:

- ▶ high wear protection thanks to the WEICON WP and additional stability due to steel plates
- ▶ increased service life compared to a new connection piece



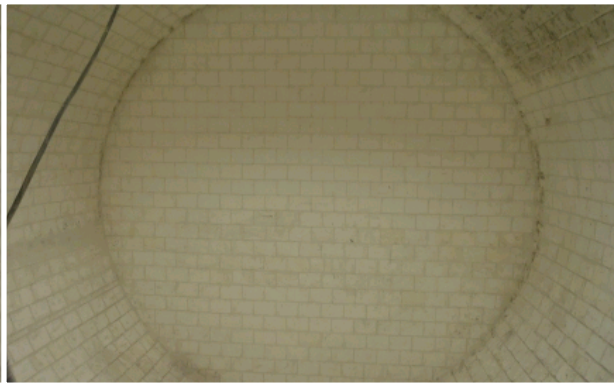


## Mill lining



### Description:

- ▶ mill lining with the epoxy resin systems WEICON WAL 04 and WEICON WAL 06
- ▶ WEICON WAL 04 is used for the round arch and WEICON WAL 06 for the front and end wall, as a higher dynamic load capacity is required there
- ▶ bonding gap: max. 5 mm



### WEICON WAL 04

▶ 2,0 kg  
10020990

### WEICON WAL 06

▶ 2,0 kg  
10030626

### Advantage of our solution:

- ▶ high resistance of the epoxy resin systems
- ▶ high temperature resistance and high mechanical strength

# Bearing repair on a crane runway



### Description:

- ▶ heavy signs of wear on a crane runway due to erosion
- ▶ previous solution: repair with fitting pieces
- ▶ the heterogenous grinding of the concrete due to micro-vibrations was reconstructed with the casting of WEICON CBC



### Injection Packer Set

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



### WEICON CBC Chocking Backing Compound

- ▶ 0,5 kg 10064790
- ▶ 3,0 kg (2,0 l) 10045020
- ▶ 10,0 kg (6,6 l) 10032939

### Advantage of our solution:



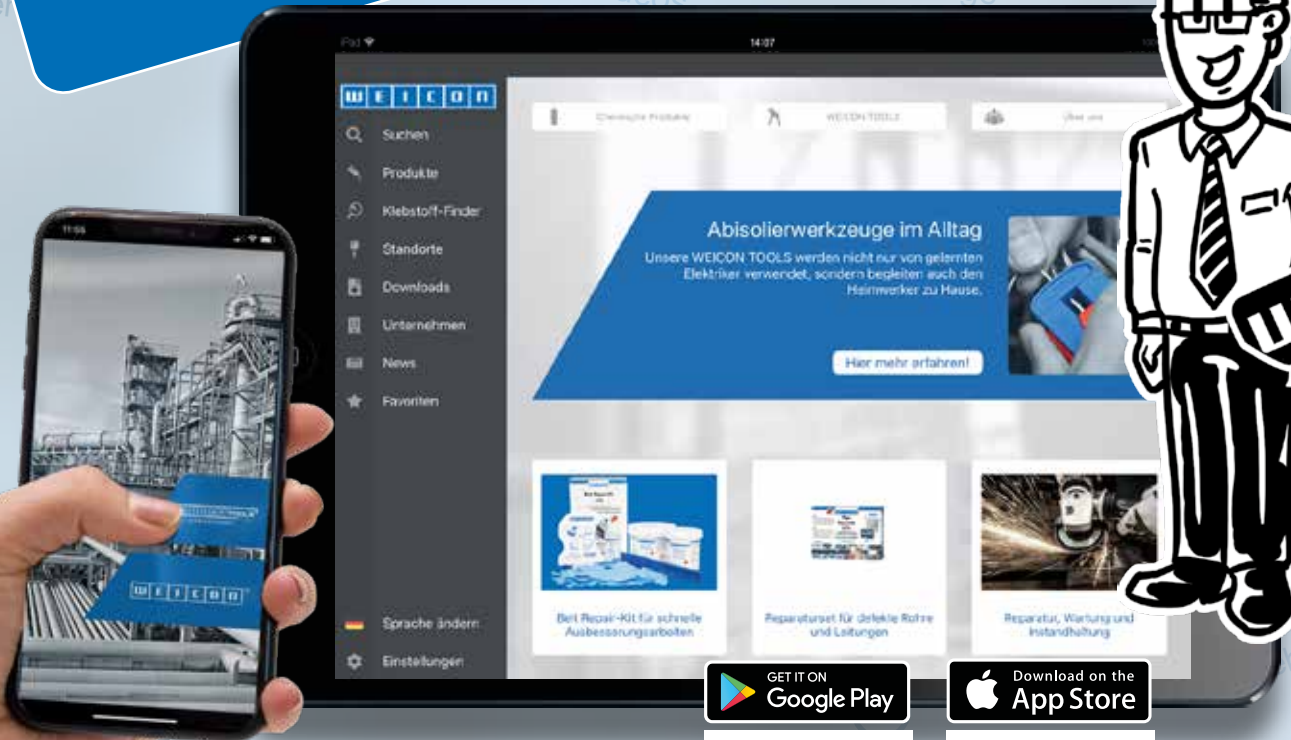
- ▶ WEICON CBC forms a direct and frictional contact to the foundation
- ▶ no cure shrinkage, high impact strength, very good resistance to pressure, media and ageing
- ▶ restoring the static properties of the crane runway





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