



WEICON®

WEICON

APPLICATIONS AND PRODUCTS III



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V 1.24

Content	Products used	Page
Applications on swimming ponds	Aqua Flex • Adhesive Spray Liquid • Primer S 300	4
Repair of a heat pump tank	WEICON HB 300 • WEICON Ceramic BL • Cleaner Spray S	5
Corrosion protection of the inner surfaces of refuse collection vehicles	WEICON Ceramic BL	6
Bonding of rubber impact protection on racing boats	Easy-Mix RK-7100	7
Repair of a ship or boat propeller	WEICON HB 300 • WEICON Ceramic BL • Cleaner Spray S	8
Attachment and alignment to hose covers and couplings on bunker station in harbour	Repair-Tape	9
Bonding of low-energy spacer and sliding elements made of PP	Easy-Mix RK-7300	10
Production of designer toilet pedestals	WEICON Casting Resin Plus 90 • Mould Release Agent Wax P 500 Colour Paste Black	11
Restoration work on a large submersible pump	WEICON HB 300 • WEICON A • WEICON GL • WEICON Ceramic BL Cleaner Spray S • Rust Converter	12
Repair of rubber pipelines in gravel plant	Urethane 85 • Urethane 80 • Cleaner Spray S	13
Bonding of rubber seals in vehicle construction	Contact GEL • VA 20 • VA 2500 HT • VA 1403	14
Coating of propeller shafts and rudder stock with ABS approval	WEICON A • WEICON Ceramic BL Glass Fibre Cloth Tape • Cleaner Spray S	15
Pump maintenance	WEICON HB 300 • WEICON GL • WEICON Ceramic BL Cleaner Spray S	16
Repair of a damaged classic car carburettor	AN 302-44 • Repair Stick Steel • Easy-Mix HT 180 • Cleaner Spray S	17
Coating of a turbocharger in a ship engine	WEICON Ceramic BL • Cleaner Spray S • Rust Converter	18
Glueing model trees to an architectural model	VA 20 • VA 1401	19
Repair of expansion bellows OQ (rubber bellows)	Urethane 85 • Primer G • Glass Fibre Cloth Tape • Cleaner Spray S	20
Coating of a de-dusting installation	WEICON WP • Cleaner Spray S	21
Repair of a ship propeller	WEICON BR • WEICON Ceramic BL • Cleaner Spray S	22
Bonding of polypropylene vent pipes	Easy-Mix PE-PP 50 • Dispenser D50 • Quadro Mixing Nozzle	23
Repair of a seal on a drum press	WEICON Belt Repair-Kit • Primer G • Cleaner Spray S	24
Repair of a pump used in wastewater disposal	WEICON Ceramic HC 220 • WEICON HB 300 • Cleaner Spray S	25
Bonding work on leg prostheses	Easy-Mix N 5000	26
Bonding work on gripper jaws of paper roll tongs	GMK 2510 • Cleaner Spray S	27
Bonding work on designer steel table	RK-1500 • Surface Cleaner	28
Coating of aluminium profiles on lighting installations	Aluminium Spray A-100	29
Repair of waste shredder for substitute fuels	Easy-Mix RK-7100 • Surface Cleaner	30
Repair of a burner pipe for pulverised coal conveying in a cement plant	WEICON WR2 • WEICON WP • WEICON Ceramic BL Urethane 85 • Primer G • Cleaner Spray S	31
Bonding of a sensor plastic insert for robots	Easy-Mix PE-PP 50 • Dispenser PE-PP • Mixing Nozzles PE-PP Special Piston	32
Repair of a conveyor belt in a gravel plant	WEICON Belt Repair-Kit • Industrial Cleaner	33
Repair/coating of a gravel hopper in a concrete plant	WEICON WR2 • WEICON Ceramic BL • Industrial Cleaner	34
Application on railway carriage	AN 305-77 • Cleaner Spray S	35
Bonding inlet and outlet valves on a wine filtration system	AN 301-43 • WEICONLOCK Activator F	36
Glueing work on an outdoor table in a city park	Easy-Mix RK-7000 • Cleaner Spray S	37
Sealing of battery packs on electric cars	Plast-o-Seal® • Surface Cleaner	38
Repair of the seal of a butterfly valve on a ship	Urethane 85 • Primer G • Cleaner Spray S	39
Sealing/adhesive bonding on tap systems	VA 1401	40
Sealing/adhesive bonding on tap systems	Contact GEL	41
Temporary fixing of work pieces during wire cutting	Contact GEL • CA-Remover	42
Repair of a belt press for sludge	Urethane 85 • Primer G • Cleaner Spray S	43
Repair of the housing of an incinerator	WEICON HB 300 • Glass Fibre Cloth Tape • Cleaner Spray S	44
Filling and sealing of a ventilation system	Flex 310 M® Stainless Steel	45
Bonding of edge banding/edge protection on chipboards	Fast-Bond • Universal Spatula • Processing Spatula, short version Surface Cleaner	46
Cleaning and protection of coffee roasting machines before delivery	Metal-Fluid	47
Coating of a cyclone in the mining industry	WEICON HP • WEICON WP • Cleaner Spray S	48
Rust conversion on the axle carrier of electric cars	Rust Converter	49
Cleaning in the food production industry	Cleaner M	50
Repair of system coolers	WEICON HB 300 • WEICON Ceramic BL WEICON Ceramic HC 220 • Cleaner Spray S	51

ALWAYS THE RIGHT SOLUTION

We don't just sell products, we provide solutions – worldwide. Wherever needed, we always find the right answers to our customers' application requests. Whether repairing a ship's propeller, a large submersible pump, a classic car carburettor or bonding designer steel tables, coating a cyclone in the mining industry or cleaning in the food production industry – our extensive WEICON product range is suitable for a wide variety of applications in all areas of industry, the skilled trades and for challenging DIY projects.

Applications on swimming ponds



Description:

- ▶ WEICON Adhesive Spray extra strong / WEICON Adhesive Spray Liquid is used to fix the protective fleece for the pond liner
- ▶ Adhesive Spray Liquid was applied undiluted with a spray gun
- ▶ Protective edges made of aluminium sheet were attached both with WEICON Aqua-Flex and with WEICON Flex 310 M® Classic
- ▶ In addition, WEICON Primer S 300 was used on concrete for absorbent substrates



Adhesive Spray Liquid

- ▶ 1 L 10000375
- ▶ 20 L 10060655



Aqua-Flex

- ▶ 310 ml 10021673 white
- ▶ 310 ml 10021678 grey
- ▶ 310 ml 10021677 black



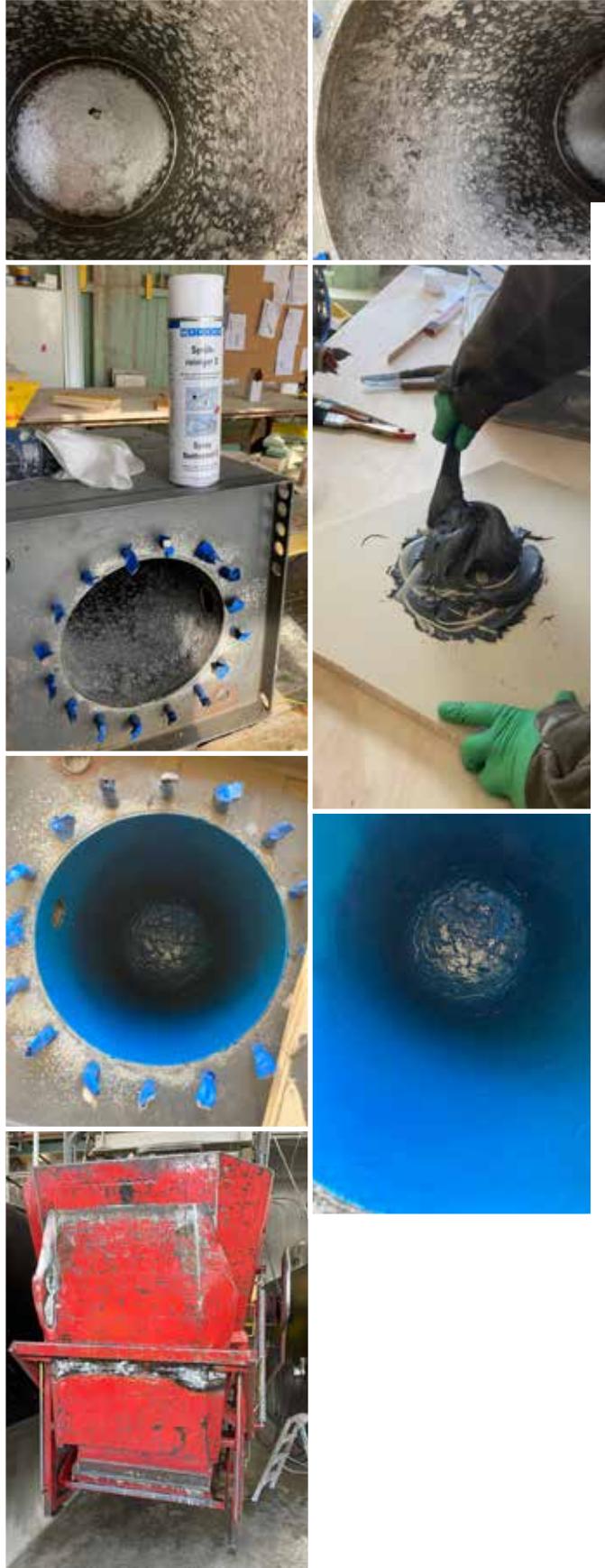
Primer S 300

- ▶ 250 ml 10023568
- ▶ 25 ml 10060610

Advantages of our solution:

- ▶ Fast, large-scale application
- ▶ Easy to use
- ▶ Quick, uncomplicated assembly

Repair of a heat pump tank



Description:

- The tank was so badly damaged by corrosion that it showed leaks
- Sandblasting of the tank
- Cleaning with WEICON Cleaner Spray S
- The damaged areas were repaired with WEICON HB 300 plastic metal; the large hole was additionally reinforced with cloth tape
- To speed up the repair process and shorten the curing time, a hot air dryer was used
- Edges and pointed parts were smoothed/sanded down with sandpaper
- After curing, WEICON Ceramic BL was applied as a final top coat



WEICON Ceramic BL

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



WEICON HB 300

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



Advantages of our solution:

- Short downtime and quick restart
- Very cost-effective repair and maintenance
- Long-term wear protection

Corrosion protection of the inner surfaces of refuse collection vehicles



Description:

- ▶ Protects the surfaces inside the truck against corrosive chemicals
- ▶ WEICON Ceramic BL is applied to all trucks every three years



WEICON Ceramic BL

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



Advantages of our solution:

- ▶ Avoids maintenance costs and replacement of spare parts

Bonding of rubber impact protection on racing boats



Description:

- SHARK™ boats are used in professional international races, e.g. in World Cup races
- By applying WEICON RK-7100, a rubber ball is attached to the tip of the bow
- The ball serves as impact protection and increases safety during rowing



Easy-Mix RK-7100

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

Advantages of our solution:



- High-strength, waterproof and long-term bonding
- Increased durability of racing boats

Repair of a ship or boat propeller



Description:

- Clean with WEICON Cleaner Spray S
- Sandblast
- Clean again with Cleaner Spray S
- Fill the cavitation damage with WEICON HB 300
- Grind the repaired surface until flat
- Seal the surface with WEICON Ceramic BL



Cleaner Spray S



WEICON HB 300

- | | | | |
|----------------------|----------------------|----------------------|----------------------|
| ► 500 ml
10000147 | ► 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 |
|----------------------|----------------------|----------------------|

Advantages of our solution:

- No need to purchase new parts
- Fast, cost-effective repair/maintenance



Attachment and alignment to hose covers and couplings on bunker station in harbour



Description:

- ▶ Clean the surface with WEICON Cleaner Spray S
- ▶ Align hose covers
- ▶ Apply WEICON Repair-Tape 10 cm x 3.5 m



WEICON Repair-Tape

- | | | |
|----------------------------|----------------------------|-----------------------------|
| ▶ 5 cm x 1,5 m
10057453 | ▶ 5 cm x 3,5 m
10057454 | ▶ 10 cm x 3,5 m
10057455 |
|----------------------------|----------------------------|-----------------------------|

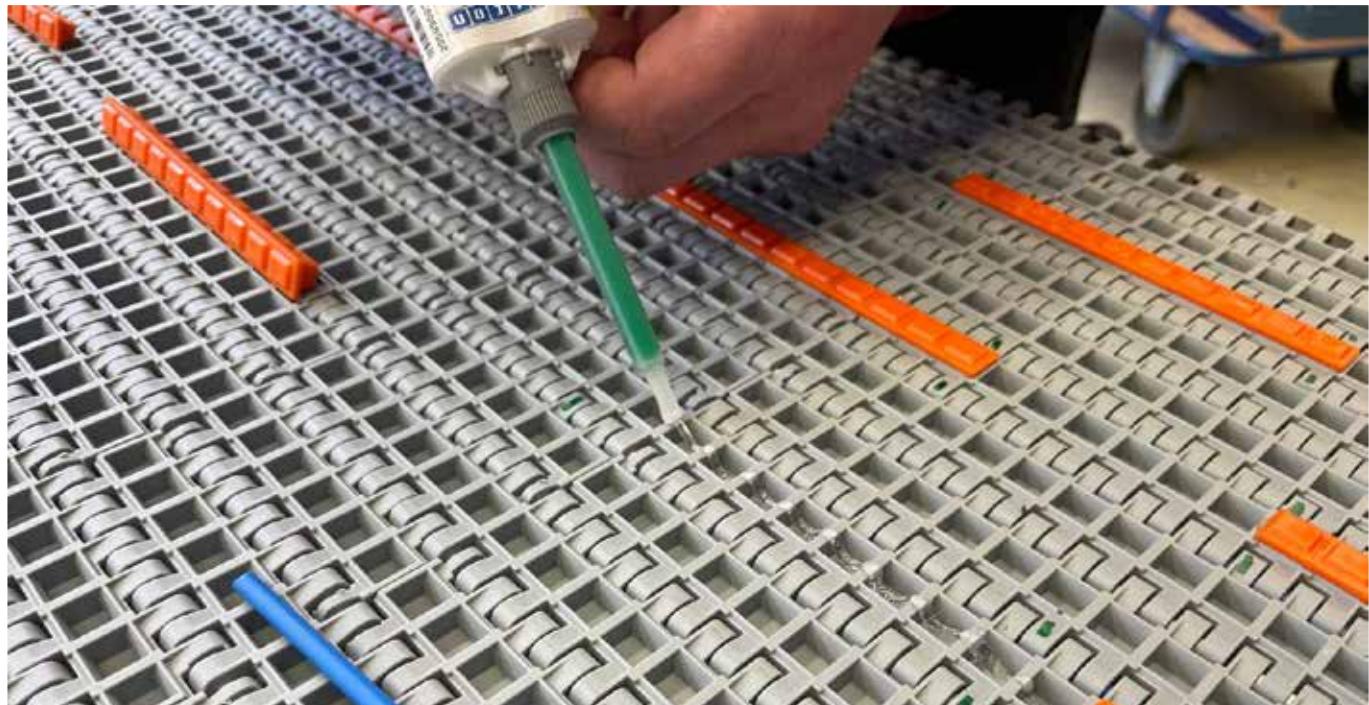


Advantages of our solution:

- ▶ Simple, inexpensive and reliable sealing



Bonding of low-energy spacer and sliding elements made of PP



Description:

- PP spacer and sliding elements are attached to a conveyor belt with WEICON RK-7300



Easy-Mix RK-7300

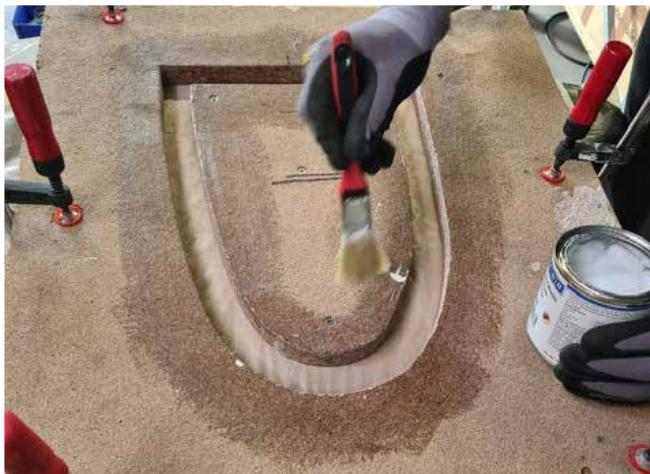
► 50 g
10047457

Advantages of our solution:



- High-strength bonding of low-energy materials

Production of designer toilet pedestals



Description:

- ▶ For the production of luxury toilets in different colours, pedestals for the basic element were needed in individual sizes
- ▶ Apply mould release agent before casting in order to be able to remove the pedestal
- ▶ High layer thickness can be easily achieved with WEICON Casting Resin Plus 90
- ▶ Use of WEICON Colour Paste Black



**Mould Release Agent
Wax P 500**

▶ 150 g ▶ 500 g
10026712 10026171



Colour Paste Black

Special colour paste based on finely dispersed colour pigments for colouring WEICON Urethane and WEICON Casting Resin

▶ 250 ml
10024676



WEICON Casting Resin Plus 90

▶ 0,2 kg ▶ 0,5 kg ▶ 1,0 kg
10060675 10060677 10060681

Advantages of our solution:

- ▶ Design flexibility
- ▶ Easy processing

Restoration work on a large submersible pump



Description:

- ▶ Heavily eroded cast iron on pump
- ▶ Clean with WEICON Cleaner Spray S
- ▶ Apply WEICON Rust Converter
- ▶ Correct the largest damages with WEICON A
- ▶ After curing, coat with WEICON HB 300
- ▶ After curing of WEICON HB 300, coat with WEICON GL and finally with WEICON Ceramic BL
- ▶ The different colours of the two wear protection systems make wear of the coating clearly visible



Rust Converter

▶ 400 ml
10047458



WEICON A

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



Cleaner Spray S

▶ 500 ml
10000147



WEICON HB 300

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



WEICON GL

▶ 0,2 kg ▶ 0,5 kg ▶ 1,0 kg ▶ 0,2 kg ▶ 0,5 kg ▶ 2,0 kg
10057791 10057714 10057800 10054394 10000093 10005233



WEICON Ceramic BL

Advantages of our solution:

- ▶ Function of the pump restored
- ▶ No new purchase necessary

Repair of rubber pipelines in gravel plant



Description:

- ▶ The pumping of sand causes erosion and cracks on the surface of the rubberised joints and connectors
- ▶ Previous solutions such as hot welding, pouring rubber or attaching patches with glue were insufficient, and consequently the parts had to be purchased anew
- ▶ Cleaning of larger holes and cracks with WEICON Cleaner Spray S, treatment with WEICON Primer G
- ▶ Followed by filling with WEICON Urethane 85
- ▶ Outer protective layer with WEICON Urethane 80 and for reinforcement insert with Paracord



Cleaner Spray S

▶ 500 ml
10000147



WEICON Urethane 80

Shore hardness: A 80
▶ 500 g
10012368



WEICON Urethane 85

Shore hardness: A 85
▶ 500 g
10057130
Work package ▶ 540 g
10057188
Cartridge



Advantages of our solution:

- ▶ Extension of service life from 500 to 1200 hours
- ▶ Cost-effective repair and maintenance



Bonding of rubber seals in vehicle construction



Description:

- ▶ Processing of sealing profiles with different material pairings; focus on door and window seals of buses, sweepers, land vehicles and other similar vehicles
- ▶ Cutting of NBR seals and joint or mitre bonding with WEICON VA 20
- ▶ Insertion of NBR seal in powder-coated door/window frames with WEICON Contact Gel and WEICON VA 2500 HT
- ▶ EPDM profile as water drainage seal with WEICON VA 2500 HT (water drain inside the door)
- ▶ EPDM profile on aluminium rail with WEICON VA 1403 as portal frame for MAN bus doors – a total of 4 bonds are carried out on the 2 m long rail
- ▶ For the majority of applications, the results are sufficient for the end customer even without primer
- ▶ Cleaning with WEICON Fast Cleaner



VA 20

▶ 12 g	▶ 30 g
10018860	10016618
▶ 60 g	▶ 500 g
10019781	10000215

Contact GEL

▶ 20 g	▶ 30 g
10002033	10018589



VA 2500 HT

▶ 12 g	▶ 30 g
10018871	10016398
▶ 60 g	▶ 500 g
10019803	10012291



VA 1403

▶ 12 g	▶ 30 g
10018879	10016512
▶ 60 g	▶ 500 g
10019798	10015993

Advantages of our solution:



- ▶ Fast further processing possible (VA 20)
- ▶ Slow curing, high viscosity, impact resistant and weather resistant (Contact Gel or VA 2500 HT)
- ▶ Low blooming and good resistance (VA 1403)

Coating of propeller shafts and rudder stock with ABS approval



Description:

- ▶ Sandblasting of the shaft
- ▶ Cleaning with WEICON Cleaner Spray S
- ▶ Application of WEICON A, levelling of minor anomalies
- ▶ Wrapping of the shaft with WEICON Glass Fibre Cloth Tape
- ▶ Application of WEICON Ceramic BL up to the required layer thickness (2-3 layer applications necessary)
- ▶ 9 m length of the propeller shafts
- ▶ Coating with ABS and DNV approval; product processing according to plan; subsequent ELCOMETER test
- ▶ After curing, the spot test was carried out and a continuous layer thickness of 2.6 – 3.0 mm was measured
- ▶ A total of six propeller shafts and two rudder stocks were coated in this way



Cleaner Spray S

▶ 500 ml
10000147



WEICON A

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



WEICON Ceramic BL

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



Glass Fibre Cloth Tape

▶ 50 mm x 1 m
10000913

Advantages of our solution:

- ▶ No expensive new purchase necessary
- ▶ Restoration of their functionality

Pump maintenance



Description:

- ▶ Sandblasting and subsequent cleaning with WEICON Cleaner Spray S
- ▶ Patching of damaged areas by rebuilding with WEICON HB 300
- ▶ Grinding and cleaning with Cleaner Spray S
- ▶ First application of a control coat with WEICON GL
- ▶ Final coat application with WEICON Ceramic BL



WEICON HB 300

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



Cleaner Spray S

- ▶ 500 ml
- 10000147



WEICON GL

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



WEICON Ceramic BL

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

Advantages of our solution:

- ▶ Restoration of their functionality
- ▶ Extension of service life
- ▶ Avoidance of an expensive new purchase

Repair of a damaged classic car carburettor



Description:

- ▶ Cleaning with WEICON Cleaner Spray S
- ▶ Milling out the thread
- ▶ Application of WEICONLOCK 302-44
- ▶ Modelling of the housing with WEICON Repair Stick Steel
- ▶ Application of the final sealing layer with WEICON Easy-Mix HT 180



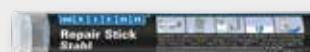
AN 302-44

▶ 20 ml 10037361 ▶ 50 ml 10037167 ▶ 200 ml 10037363



Cleaner Spray S

▶ 500 ml 10000147



Repair Stick Steel

▶ 57 g 10010241 ▶ 115 g 10007705



Easy-Mix HT 180

▶ 50 ml 10044884



Advantages of our solution:

- ▶ No expensive reproduction of the spare part necessary
- ▶ The Corvette Stingray 1978 is running again

Coating of an intercooler in a ship engine



Description:

- ▶ Severe corrosion of the condenser due to condensation caused by cooling compressed air in the turbocharger
- ▶ Loose rust was removed with a needle hammer
- ▶ The surface was cleaned with WEICON Cleaner Spray S
- ▶ WEICON Rust Converter was applied to stop existing corrosion
- ▶ A total of 10 kg of WEICON Ceramic BL was applied with a layer thickness of approx. 1 mm on an area of approx. 5 m²



Cleaner Spray S



Rust Converter

► 500 ml
10000147

► 400 ml
10047458



WEICON Ceramic BL

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

Advantages of our solution:

- ▶ Restoration of spare parts that are no longer available

Glueing model trees to an architectural model



Description:

- ▶ Application of WEICON Contact VA 20 and WEICON Contact VA 1401 onto the tree stumps
- ▶ Fixation of the trees on the metal surface
- ▶ Cleaning is not necessary in this case – a certain degree of soiling can be tolerated in this application



NSF Nonfood Compounds
Program Listed \$4
Registration 162959



VA 20

- ▶ 12 g 10018860
- ▶ 30 g 10016618
- ▶ 60 g 10019781
- ▶ 500 g 10000215



VA 1401

- ▶ 12 g 10018869
- ▶ 30 g 10016402
- ▶ 60 g 10019787
- ▶ 500 g 10001557

VIDEO



Advantages of our solution:

- ▶ Fast and long-term fixation
- ▶ Clean and residue-free bonding thanks to liquid adhesive
- ▶ No interference with the design

Repair of expansion bellows OQ (rubber bellows)



Description:

- ▶ In a refinery, an accident caused raw petrol to enter the cooling water and damage several components
- ▶ After cleaning the cooling water, various damages became apparent, i.e. damage to the expansion bellows of the pumps (\varnothing 1.6 m)
- ▶ Roughen the surface and then clean with WEICON Cleaner Spray S
- ▶ Apply WEICON Primer G
- ▶ Apply the first coat of WEICON Urethane 85
- ▶ Laminate WEICON Glass Fibre Cloth Tape onto it
- ▶ Apply the second coat of WEICON Urethane 85; application of a total of four coats



Cleaner Spray S



Glass Fibre Cloth Tape

▶ 50 mm x 1 m
[10000913](#)



WEICON Urethane 85



Primer G

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

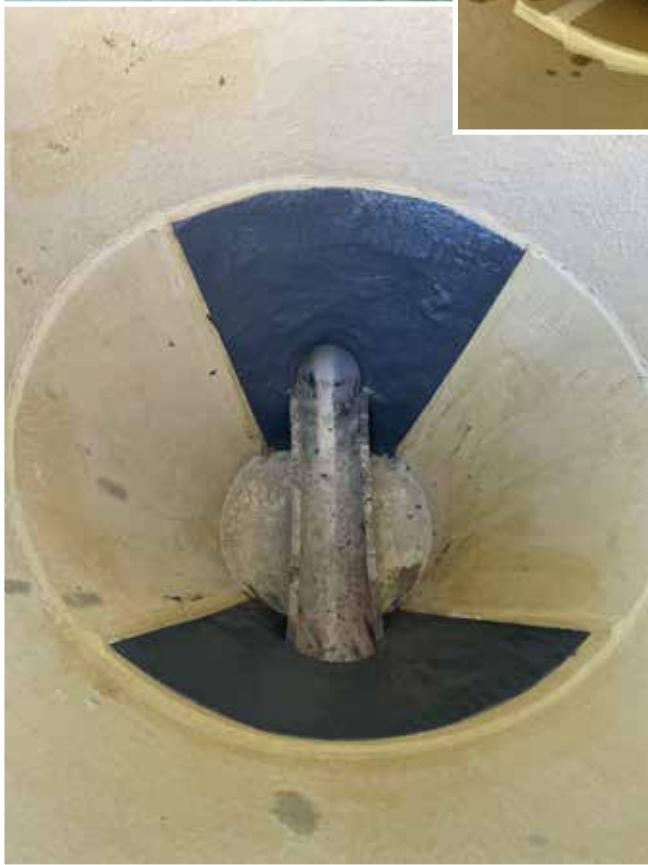
▶ 50 g
[10057199](#)



Advantages of our solution:

- ▶ New purchase of expansion bellows costs EUR 15,000–20,000
- ▶ Fast repair and rapid return to operational readiness

Coating of a de-dusting installation



Description:

- In a de-dusting installation, dust is transported through a pipe with the aid of water
- The metal surface around the pipe showed heavy wear marks resulting from the permanent exposure to the water-dust mixture
- Application of an adhesive tape to delimit the area to be coated
- Grinding of the surface
- Cleaning with WEICON Cleaner Spray S
- Application of WEICON WP to the surface (6 kg were used for both sides)
- Finishing the WP coating with a brush



Cleaner Spray S

► 500 ml
10000147



WEICON WP

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

VIDEO



Advantages of our solution:

- Simple, low-cost repair
- No new purchase necessary

Repair of a ship propeller



Description:

- ▶ Roughening of the surfaces by sanding them
- ▶ Cleaning with WEICON Cleaner Spray S
- ▶ Application of the primer coat with WEICON BR
- ▶ Re-sanding and cleaning of the surface
- ▶ Application of the final coating with WEICON Ceramic BL



Cleaner Spray S

► 500 ml
10000147



WEICON BR

► 0,2 kg ► 0,5 kg ► 1,6 kg
10054386 10012669 10012670



WEICON Ceramic BL

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

Advantages of our solution:



- ▶ Cheaper and faster than a new purchase

Bonding of polypropylene vent pipes



Description:

- ▶ HT pipes made of PP were used for ventilation in a residential building
- ▶ In the area of the sleeve, these had to be shortened and reconnected
- ▶ Bonding with WEICON Easy-Mix PE-PP 50



Easy-Mix PE-PP 50

► 24 ml 10062144 transparent	► 50 ml 10058667 transparent
------------------------------------	------------------------------------

Dispenser D50

10005237

Quadro Mixing Nozzle B

10029793

Advantages of our solution:



- ▶ High-strength permanent bonding
- ▶ Easy assembly

Repair of a seal on a drum press



Description:

- ▶ Cleaning of the surfaces with WEICON Cleaner Spray S
- ▶ Pre-treatment of the surfaces to be bonded with WEICON Primer G
- ▶ Application of the permanently elastic repair compound WEICON Belt-Repair Kit
- ▶ A polyethylene film was wrapped around the seal to adapt the profile



Primer G

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

10057199



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

Advantages of our solution:

- ▶ Short downtime
- ▶ Fast, cost-effective repair

Repair of a pump used in wastewater disposal



Description:

- ▶ Clean with WEICON Cleaner Spray S
- ▶ Sandblast and clean again with WEICON Cleaner Spray S
- ▶ Apply WEICON HB 300 for the build-up and WEICON Ceramic HC 220 for the final coating



Cleaner Spray S

► 500 ml
10000147



WEICON Ceramic HC 220

► 0,2 kg 10060702 ► 0,5 kg 10060705 ► 2,0 kg 10060707



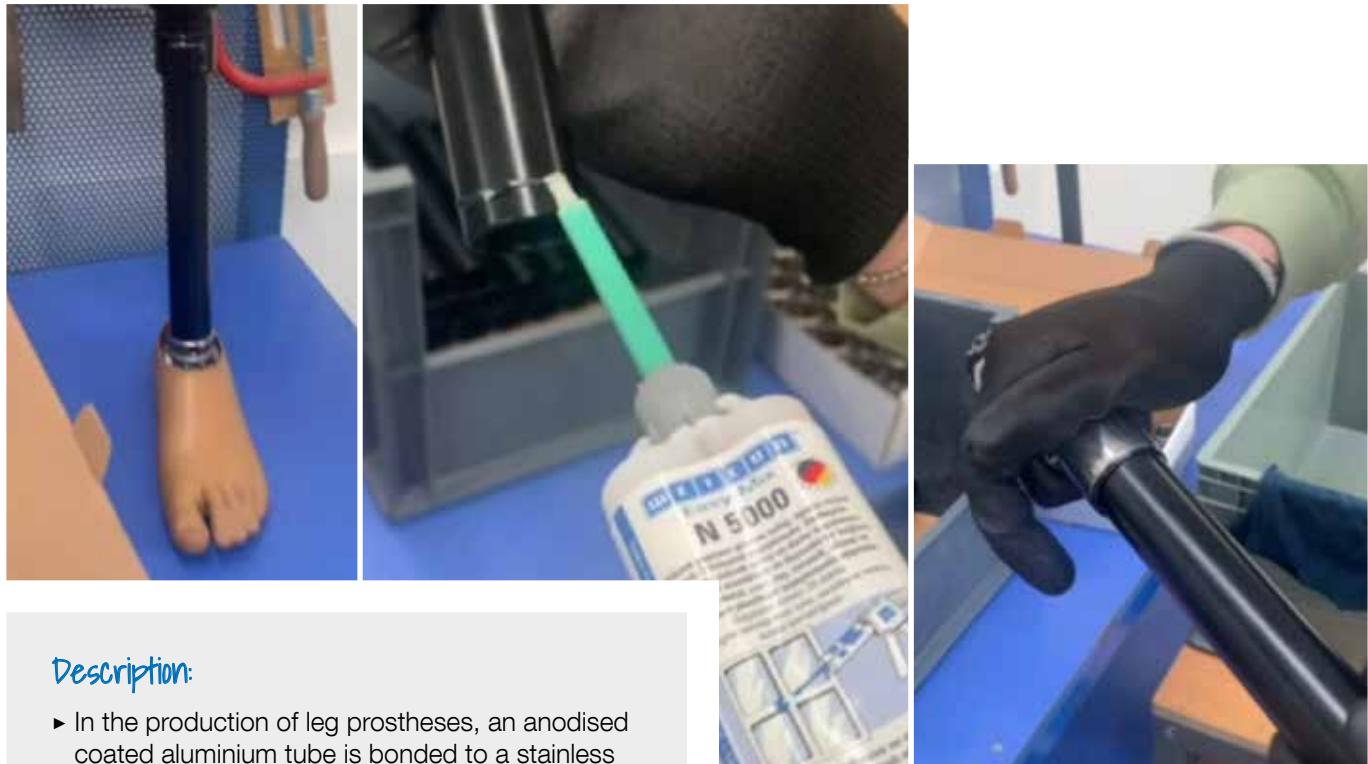
WEICON HB 300

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

Advantages of our solution:

- ▶ Fast, low-cost and long-term repair

Bonding work on leg prostheses



Description:

- ▶ In the production of leg prostheses, an anodised coated aluminium tube is bonded to a stainless steel body
- ▶ In this application, the adhesive gap is very small
- ▶ Use of WEICON Easy-Mix N 5000, as it is highly fluid



Easy-Mix N 5000

► 50 ml
10016374



Advantages of our solution:

- ▶ No screws are needed
- ▶ High force transmission thanks to high-strength bonding
- ▶ Joining of different materials
- ▶ Fast, inexpensive production



VIDEO



Bonding work on gripper jaws of paper roll tongs



Description:

- Bonding of NBR rubber with steel S355
- First roughen the materials
- Then clean with WEICON Cleaner Spray S
- Apply WEICON GMK 2510 to both surfaces
- After approx. 10 minutes of drying time, join the materials and strike with a soft-face hammer



Cleaner Spray S

► 500 ml
10000147



GMK 2510

► 324 g
10039649

► 690 g
10034480

Work package (contains 300 g of adhesive, 24 g of crosslinker and wooden spatula)

Work package (contains 650 g of adhesive, 40 g of crosslinker and processing spatula)



Advantages of our solution:

- Temperature-resistant
- Impact-resistant



RN: GMK010

Bonding work on designer steel table



Description:

- Application at one of the leading steel processing companies in the United Arab Emirates
- An adhesive was to be used for the application, as welding was not possible and great importance was attached to aesthetics and stability
- Cleaning with WEICON Surface Cleaner
- Bonding of the metal parts with construction adhesive WEICON RK-1500



WEICON RK-1500

Surface Cleaner

- | | |
|----------|----------|
| ► 150 ml | ► 400 ml |
| 10024317 | 10024313 |

- | | |
|----------------------|-----------------------|
| ► 60 g* ¹ | ► 310 g* ² |
| 10008905 | 10016249 |

- | | |
|------------------------|------------------------|
| ► 1,0 kg* ¹ | ► 6,0 kg* ² |
| 10002622 | 10100180 |

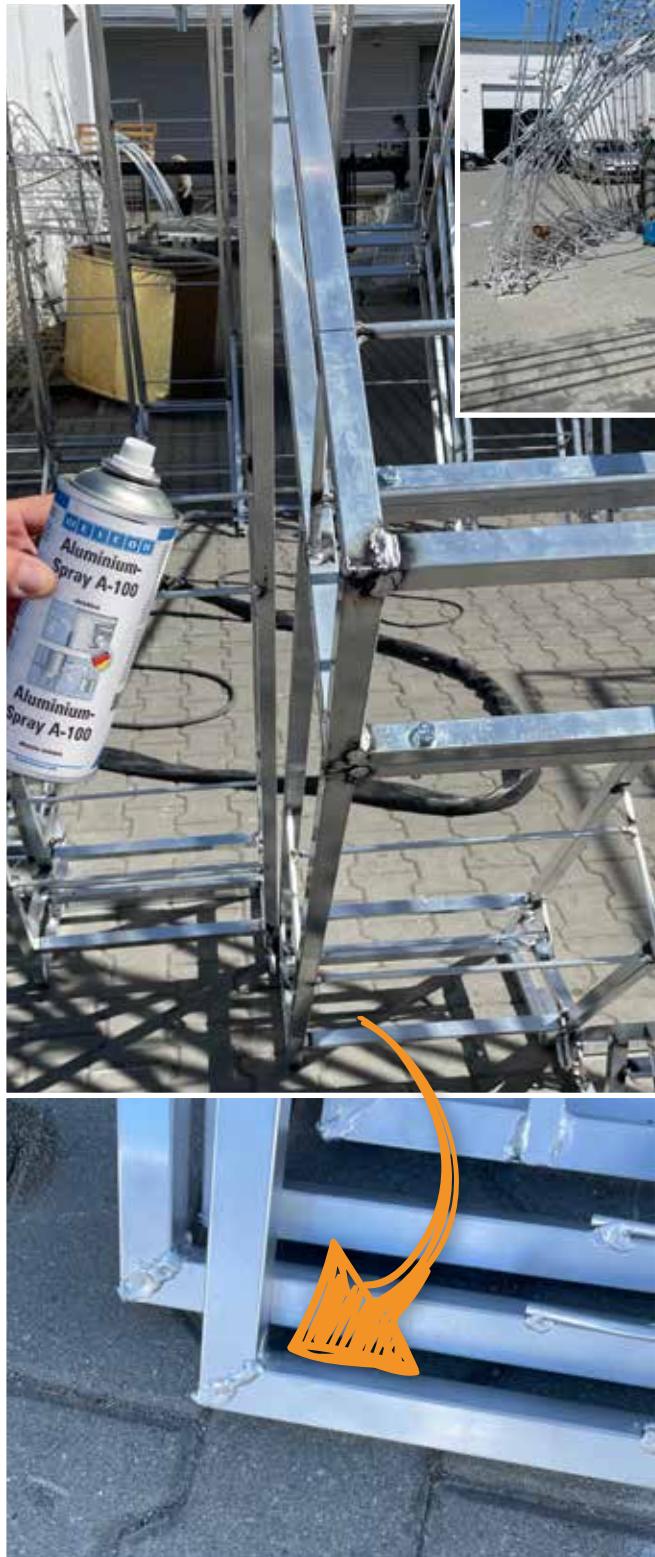
*¹Complete package, comprising the adhesive and activator
*²without activator

Advantages of our solution:



- Design flexibility
- Easy assembly
- High-strength bonding

Coating of aluminium profiles on lighting installations



Description:

- ▶ Application at a manufacturer of lighting installations
- ▶ Treatment of all weld seams of the aluminium profiles with WEICON Aluminium Spray A-100
- ▶ 3000–4000 pieces of this article are used per year



Aluminium Spray A-100

▶ 400 ml
10000050

Advantages of our solution:

- ▶ Attractive look
- ▶ Excellent corrosion protection

Repair of waste shredder for substitute fuels



Description:

- ▶ Hood made of GRP, a glass-fibre reinforced plastic, and hinges made of steel
- ▶ The GRP in the area of the cast-in hinges was severely damaged by frequent and powerful opening and closing of the hood
- ▶ Grinding of hinges and of GRP
- ▶ Cleaning of roughened surfaces with WEICON Surface Cleaner
- ▶ Bonding with WEICON Easy-Mix RK-7100



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:

- ▶ Full-surface force transmission on the hinge
- ▶ No tearing of screws or rivets
- ▶ Permanent and inexpensive repair

Repair of a burner pipe for pulverised coal conveying in a cement plant



Description:

- ▶ Removal of the old rubber coating (MetaLine)
- ▶ Mechanical treatment of the damaged area by grinding
- ▶ Cleaning with WEICON Cleaner Spray S
- ▶ Correction of minor anomalies with WEICON WR2
- ▶ After curing of WEICON WR2, application of WEICON WP
- ▶ Final coating with WEICON Ceramic BL
- ▶ Subsequently, final application of WEICON Urethane 85 as connecting joint between WEICON WP and original material
- ▶ Fine coal dust hits the WEICON coated surface at an angle of 20°
- ▶ The dust is led through an air system to the burner and burnt there



Cleaner Spray S

► 500 ml
10000147



WEICON WP

► 2,0 kg 10032320 ► 10,0 kg 10032939



WEICON WR2

► 0,5 kg 10000087 ► 2,0 kg 10000088



WEICON Ceramic BL

► 0,5 kg 10000093 ► 2,0 kg 10005233



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

Advantages of our solution:

- ▶ Fast repair with lasting effect
- ▶ Durable protection against abrasive coal dust

Bonding of a sensor plastic insert for robots



Description:

- ▶ Casing elements around the robots are equipped with pressure sensors
- ▶ As soon as these are touched with a force of 5 Newton, the robot immediately goes into safety-protected standstill
- ▶ The mount for the sensors is bonded with WEICON Easy-Mix PE-PP 50 to the inside of the casing element
- ▶ The casing is made of ABS and the mount of PE

Easy-Mix PE-PP 50



▶ 24 ml 10062144 transparent

▶ 50 ml 10058667 transparent

Dispenser D50

10005237

Quadro Mixing Nozzle B

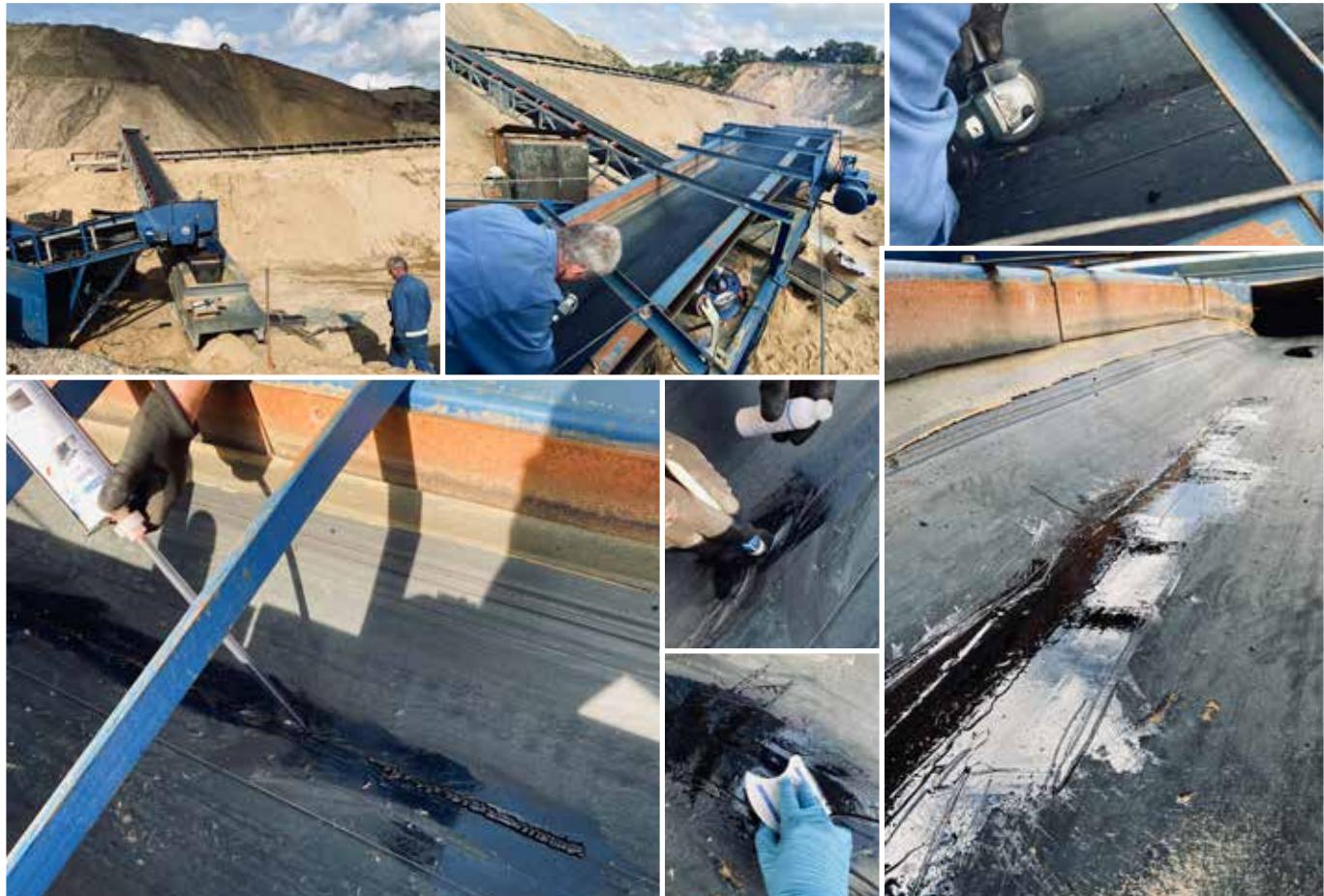
10029793



Advantages of our solution:

- ▶ Design flexibility through bonding
- ▶ Bonding also possible for badly matched material pairings (polyethylene)
- ▶ Easy assembly

Repair of a conveyor belt in a gravel plant



Description:

- Roughen the damaged area with abrasive flap disc, grade 80
- Then clean with WEICON Industrial Cleaner
- Apply WEICON Urethane 85 from a double cartridge; fill and level the damaged area with WEICON Contour Spatula Flexy



Industrial Cleaner

► 500 ml
10055297

WEICON Belt Repair-Kit

Belt Repair-Kit 550
► 500 g + Primer G 50 g
10055014

Belt Repair-Kit 590
► 540 g + Primer G 50 g
10052425

VIDEO



Advantages of our solution:

- No new purchase necessary
- Fast, simple return to operational readiness
- Extension of service life



RN: PS249

Repair/coating of a gravel hopper in a concrete plant



Description:

- A heavily used bucket needed repairing
- Many years ago, the bucket was equipped with PU wear protection mats all around
- Over time, the mats have loosened, sand moisture and grit have infiltrated the mats and loosened them from the material support
- Preparation: Area calculation approx. 11.22 cm^3 / approx. 1.4 m^2 , marking, removal of damaged material
- Pre-treatment of the substrate: rust removal with Bristle Blaster, then cleaning with WEICON Industrial Cleaner
- Final cleaning with WEICON Industrial Cleaner
- Application of WEICON WR2 over a wide area
- After the drying phase, coating with WEICON Ceramic BL



Industrial Cleaner

- 500 ml
10055297



WEICON WR2

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



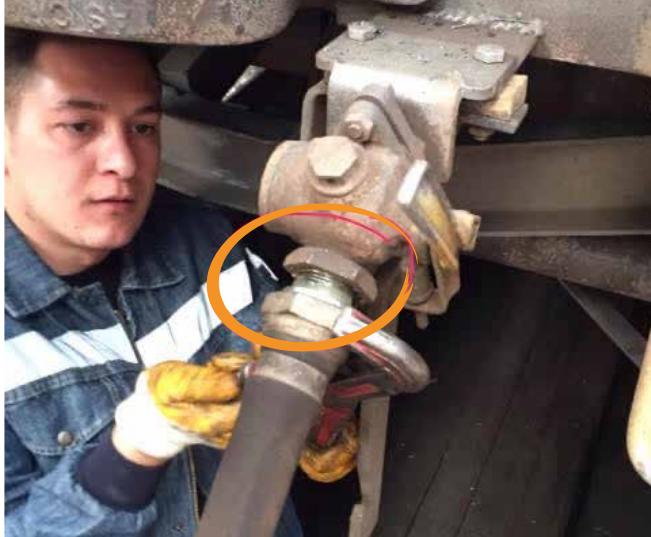
WEICON Ceramic BL

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

Advantages of our solution:

- Low-cost permanent repair

Application on railway carriage



Description:

- ▶ Between the carriages, electric and air cables are connected with special apparatuses
- ▶ The compressed air generated in the locomotive is transferred to other carriages via these connections
- ▶ Compressed air is used both in the heating of the staff carriages and in the braking system of all carriages
- ▶ There is a pressure of up to 15 bar in the system – the sealing of the connections is therefore of major importance
- ▶ Teflon and hemp materials are normally used for sealing
- ▶ However, due to frequent disassembly and assembly, over-tightening can lead to deformation of the gears, assembly errors during tightening, as well as cracks and leakage
- ▶ Cleaning of the surfaces with WEICON Cleaner Spray S
- ▶ Use of WEICONLOCK AN 305-77 on gear connections



Cleaner Spray S

► 500 ml
10000147



AN 305-77

► 50 ml 10019949 ► 200 ml 10020011 ► 300 ml 10034148



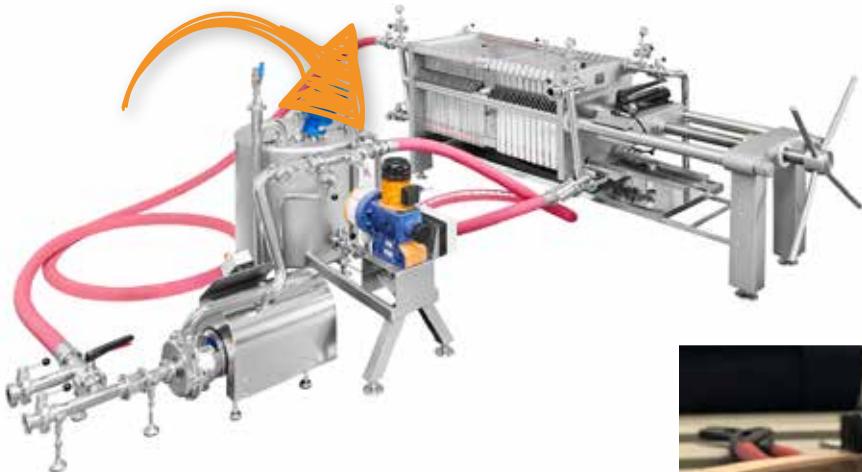
Nach IVK-Empfehlung
Hygiene-Institut
des Ruhrgebiets



Advantages of our solution:

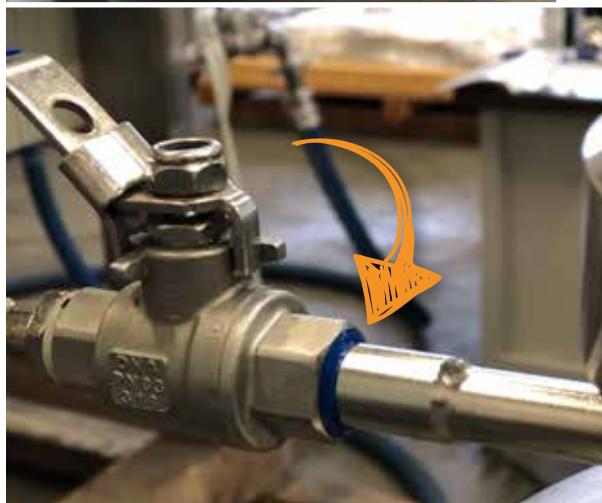
- ▶ Fast, simple repair

Bonding inlet and outlet valves on a wine filtration system



Description:

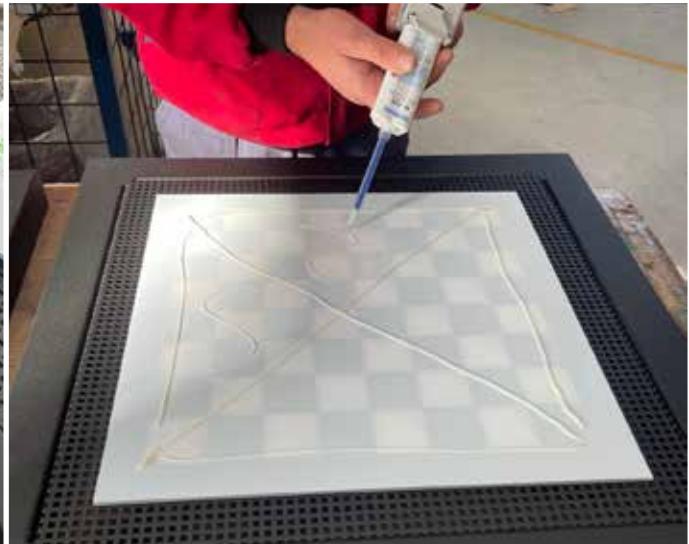
- The system has numerous inlet and outlet valves made of stainless steel (VA 316, VA 304)
- Previous sealing of valves and pipes with PTFE tape is insufficient
- A sealant with NSF approval was required that is resistant to the potassium hydroxide solution used as a cleaning agent
- Use of WEICONLOCK AN 301-43 in combination with WEICONLOCK Activator F for sealing



Advantages of our solution:

- High-strength permanent sealing effect with approval for use in food contact applications

Glueing work on an outdoor table in a city park



Description:

- ▶ Powder-coated steel was to be connected with a polycarbonate tabletop
- ▶ Cleaning with WEICON Cleaner Spray S
- ▶ Bonding with WEICON Easy-Mix RK-7000



Surface Cleaner

► 150 ml
10024317



Easy-Mix RK-7000

► 400 ml
10024313

► 50 g
10018563

Advantages of our solution:

- ▶ Weatherproof bonding



Sealing of battery packs on electric cars



Description:

- Cleaning with WEICON Surface Cleaner
- Sealing of the battery packs with WEICON Plast-o-Seal



Surface Cleaner

► 150 ml ► 400 ml
10024317 10024313



Plast-O-Seal®

► 90 g	► 120 g
10014387	10014388
Tube	Brush top can
► 230 g	► 300 g
10039427	10014389
Presspack	Cartridge



Advantages of our solution:

- Long-term sealing effect

Repair of the seal of a butterfly valve on a ship



Description:

- ▶ Rubber area on the body of a ship's butterfly valve damaged by maintenance/assembly
- ▶ Grind the surface
- ▶ Clean with WEICON Cleaner Spray S
- ▶ Apply WEICON Primer G
- ▶ Repair with WEICON Urethane 85
- ▶ Grind the surface again
- ▶ The repair withstood 6 bar during pressure test



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

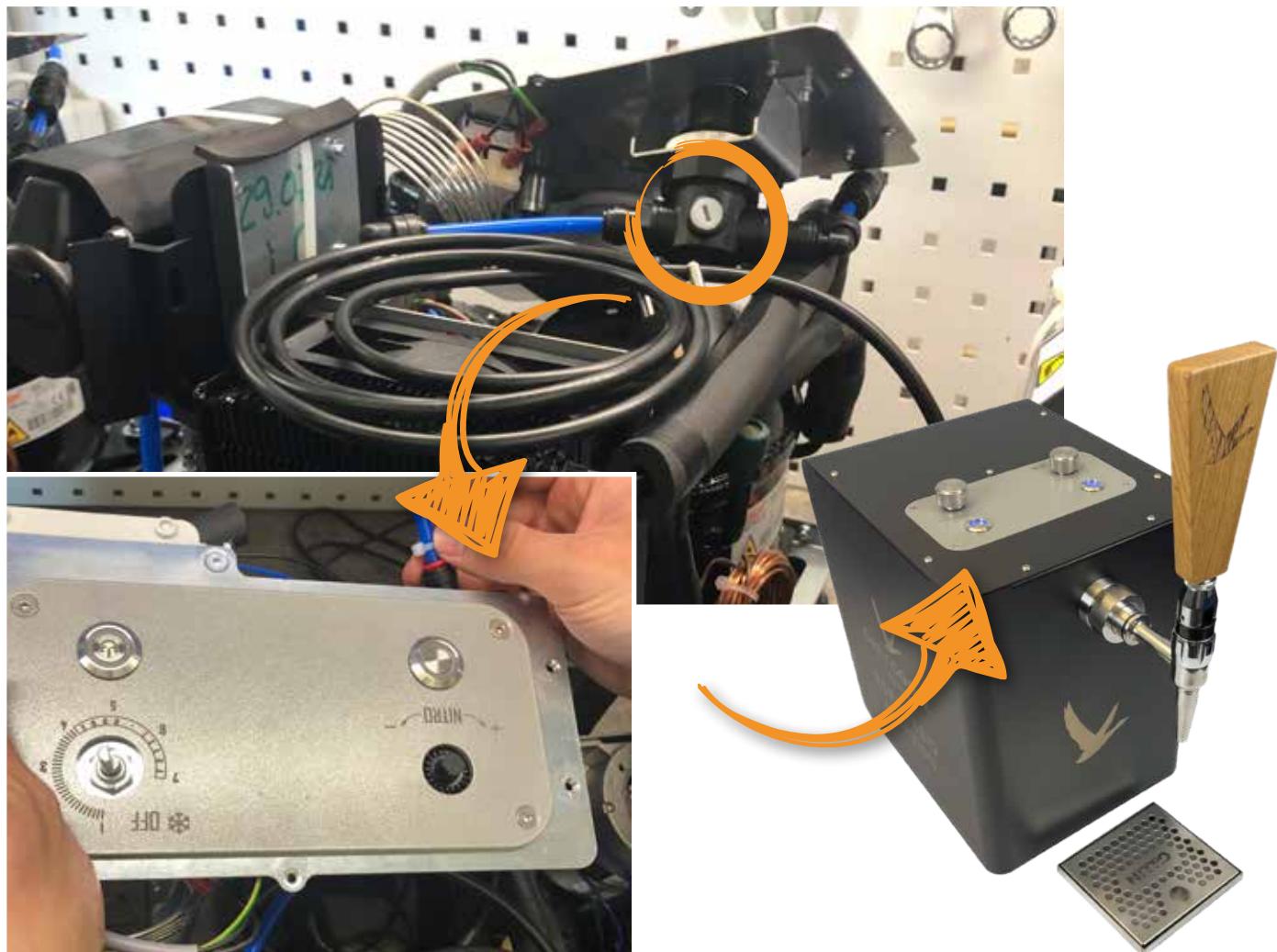
Shore hardness: A 85

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

Advantages of our solution:

- ▶ Fast, cost-effective, contour and congruent repair
- ▶ No new purchase necessary

Sealing/adhesive bonding on tap systems



Description:

- ▶ The plastic thread on PE sleeves required sealing
- ▶ NSF/FDA approval required for worldwide export
- ▶ Airtightness and NSF/FDA conformity as a requirement for the application
- ▶ Sealing of the compressed air regulator with WEICON Contact VA 1401



Advantages of our solution:

- ▶ Easy to handle
- ▶ Does not bloom
- ▶ Adhesive stays where applied and adheres quickly



Nonfood Compounds
Program Listed S4
Registration 162959

VA 1401

▶ 12 g 10018869 ▶ 30 g 10016402 ▶ 60 g 10019787 ▶ 500 g 10001557

Sealing/adhesive bonding on tap systems



Description:

- ▶ NSF/FDA approval required for worldwide export
- ▶ Thermometer case handmade from German oak and stainless steel frame
- ▶ It is required to permanently connect the wooden manometer with VA using a 1-component adhesive
- ▶ Bonding with WEICON Contact Gel



Contact GEL

▶ 20 g ▶ 30 g
10002033 10018589



Advantages of our solution:

- ▶ Fast curing
- ▶ Easy handling for visually sophisticated components



Temporary fixing of work pieces during wire cutting



Description:

- ▶ During wire cutting, workpieces must be fixed in place, as any movement would destroy the components, which are manufactured exactly to size
- ▶ There is a rather large gap of 0.3 mm when wire-cutting – if loaded too early, the component will tip over
- ▶ WEICON Contact Gel was pressed into the gap with a spatula, water was applied and then left to rest for approx. 10 minutes
- ▶ As a result of the shock curing and the subsequent waiting time, the adhesive is strong enough to prevent the component from tipping over
- ▶ After completing the cutting process, the adhesive was removed with WEICON CA-Remover



Contact GEL

► 20 g
10002033



CA-Remover

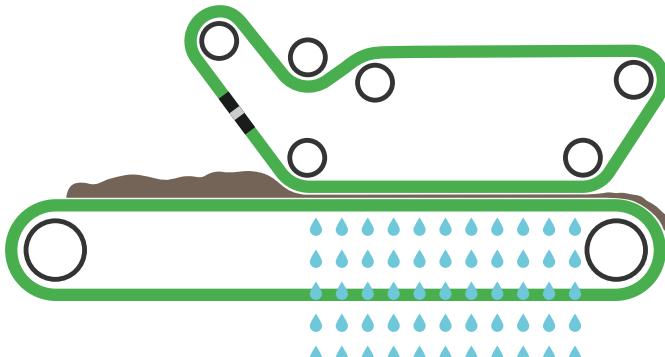
► 30 ml
10051358



Advantages of our solution:

- ▶ Easy component separation after working on them
- ▶ Better removal of adhesive residues compared to the previous solution with a 2-component epoxy adhesive

Repair of a belt press for sludge



Description:

- ▶ Damaged seam of polyamide fabric in the conveyor belt of a dewatering belt press in a wastewater treatment plant
- ▶ Cleaning of the surface with WEICON Cleaner Spray S
- ▶ Pre-treatment of the surface with WEICON Primer G
- ▶ Application of WEICON Urethane 85
- ▶ **TIP:** tape off areas that are not to be coated



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



VIDEO



Advantages of our solution:

- ▶ Fast, low-cost repair
- ▶ Neither disassembly nor replacement necessary
- ▶ **TIP:** especially fast repair possible with Urethane 85 SF



Repair of the housing of an incinerator



Description:

- ▶ Highly aggressive and toxic media are incinerated in the incinerator
- ▶ The incinerator had to be shut down due to damage
- ▶ Clean with WEICON Cleaner Spray S
- ▶ Grind the surface and clean again
- ▶ Apply a base coat of WEICON HB 300 plastic metal
- ▶ Apply WEICON Glass Fibre Cloth Tape
- ▶ Finally, apply a top coat of WEICON HB 300



Cleaner Spray S

▶ 500 ml
10000147



WEICON HB 300

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



Glass Fibre Cloth Tape

▶ 50 mm x 1 m
10000913

Advantages of our solution:



- ▶ Proper and professional repair of the incinerator
- ▶ Previous solutions using lacquers could be expertly replaced
- ▶ Easy processing of the epoxy resin systems
- ▶ Permanent operation of the incinerator guaranteed thanks to WEICON HB 300
- ▶ High temperature resistance and very good media resistance

Filling and sealing of a ventilation system



Description:

- Silicone not approved for this application due to lack of adhesion to stainless surface and unattractive appearance
- WEICON Flex 310 M® Stainless Steel was suitable for this application owing to its adhesive and sealing properties and compatibility on stainless surfaces



Advantages of our solution:

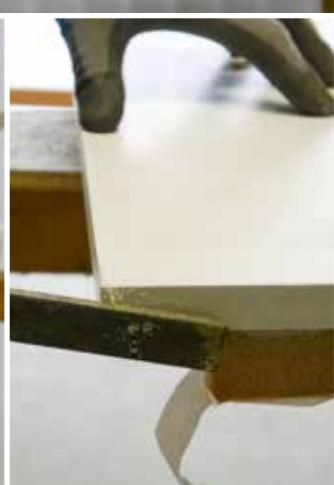


- Replacement of the sealing silicone
- No corrosive attack on the ventilation ducts by acetic acid
- Permanent expansion-free sealing effect

Flex 310 M®Stainless Steel

► 310 ml
10049091
Stainless Steel

Bonding of edge banding/edge protection on chipboards



Description:

- Apply WEICON Fast-Bond on chipboards
- Spread the adhesive with a spatula
- Fix and tighten the components
- Final treatment: cut and grind off excess material



Surface Cleaner

► 150 ml
10024317

► 400 ml
10024313



Fast-Bond

► 310 ml
10015372
beige



Universal Spatula

10039185



Processing Spatula,
short version

10010887



Advantages of our solution:



- Fast curing
- Greatly improved adhesive strength compared to hot melt adhesives
- Gap-filling; good adhesion to plastic and wood; penetrates well into the material and ensures long durability
- Frost-proof, temperature and moisture resistant
- Ideally suited for damp rooms, such as cellars and bathrooms
- Can be mechanically processed after curing

Cleaning and protection of coffee roasting machines before delivery



Description:

- ▶ For parts made of stainless steel and powder-coated surfaces
- ▶ Spray on WEICON Metal-Fluid and polish with a clean, soft cotton cloth



Metal-Fluid

- ▶ 400 ml
10016338



Advantages of our solution:



- ▶ Meets the high NSF standards for the food sector
- ▶ Lasting protection against fingerprints and new soiling



Coating of a cyclone in the mining industry



Description:

- ▶ Mechanical cleaning, substrate pre-treatment, cleaning with WEICON Cleaner Spray S
- ▶ Application of adhesive layer with WEICON HP
- ▶ After curing, application of a second coat with WEICON WP
- ▶ Embedding of 3 mm ceramic balls into the still wet surface
- ▶ After curing, final sealing with WEICON HP
- ▶ Abrasion protection coating against limestone particles of 3 to 4 mm in size



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



Cleaner Spray S

▶ 500 ml
10000147



WEICON WP

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

Advantages of our solution:



- ▶ Protection against abrasion
- ▶ Extension of service life
- ▶ No expensive purchase of new parts necessary

Rust conversion on the axle carrier of electric cars



Description:

- ▶ Repair of the axle carrier on the chassis of electric cars
- ▶ Removal of loose rust particles
- ▶ Application of WEICON Rust Converter



Rust Converter

► 400 ml
10047458

Advantages of our solution:



- ▶ Durable, cost-effective and long-lasting repair

Cleaning in the food production industry



Description:

- The liquid cleaning agent WEICON Cleaner M, classified as non-hazardous, is suitable for the cleaning of equipment and of floors and walls in the pharmaceutical industry
- The cleaner can be used, for example, to remove dried powder that is difficult to dissolve and contains a high proportion of vitamin C



Cleaner M

► 1 L ► 5 L ► 10 L ► 28 L
10059076 10060671 10058236 10060673

VIDEO



Advantages of our solution:

- Non-hazardous product with extremely high efficiency

Repair of system coolers



Description:

- ▶ Sandblasting and grinding as pre-treatment; subsequent cleaning with WEICON Cleaner Spray S
- ▶ Build-up of the damaged areas with WEICON HB 300
- ▶ Levelling of the repaired areas through grinding, then cleaning with WEICON Cleaner Spray S
- ▶ First coating with WEICON Ceramic BL as primer and control layer
- ▶ Final coating with WEICON Ceramic HC 220 as a final protective layer



WEICON HB 300

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

Cleaner Spray S

- | |
|----------|
| ▶ 500 ml |
| 10000147 |



WEICON Ceramic BL

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



WEICON Ceramic HC 220

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

Advantages of our solution:

- ▶ Restoration of the system component
- ▶ Extension of service life
- ▶ No new purchase necessary



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