



APPLICATIONS AND PRODUCTS

PUMP REPAIRS



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The use of protective WEICON ceramic coatings on pumps provides major advantages, such as increased wear and corrosion resistance, improved efficiency, a longer service life and a significant reduction in maintenance costs. Thanks to these benefits, WEICON ceramic coatings offer a valuable solution for the protection of pumps in various industrial applications, ensuring reliable and efficient operation while contributing to overall cost savings and sustainability.

Enhanced Wear & Abrasion Resistance

The ceramic fillers in WEICON ceramic coatings provide a hard, wear-resistant surface that protects pump components from abrasion caused by fine particles in the pumped fluids.

Corrosion & Chemical Resistance

The coating forms a protective barrier against corrosive substances, extending the life of pumps that are operated in aggressive chemical environments. It is effective in protecting against various types of chemical corrosion, including acidic and alkaline media.

Improved Efficiency

The ceramic coating creates a smooth surface that reduces friction and turbulence within the pump. This improvement in fluid dynamics can enhance the pump's efficiency, leading to lower energy consumption and better performance.

Extended Service Life

By protecting critical components from wear and corrosion, the coating significantly increases durability and extends the service life of pumps. Reduced frequency of maintenance and replacements results in lower overall operational costs.

Reduced Maintenance Costs

The increased resistance to wear and corrosion means that pumps require less frequent repairs and maintenance. This minimizes downtime, which is particularly beneficial in critical applications where continuous operation is essential.

Versatility

Suitable for a wide range of applications, WEICON ceramic coatings can be used on various types of pumps, including centrifugal, split casing, diaphragm and gear pumps. WEICON ceramic coatings are successfully used in many different industries, such as wastewater treatment, chemical processing, mining and oil & gas.

Easy Application

WEICON ceramic coatings are user-friendly and can be easily applied with basic tools after sandblasting. These protective coatings cure at ambient temperatures, simplifying the application process and eliminating the need for special equipment.

High Temperature Resistance

Ceramic coatings provide thermal stability and can resist high temperatures, making them suitable for pumps used in elevated temperature environments where other conventional coatings may fail.

Improved Reliability

The enhanced protection ensures that pumps operate reliably over longer periods, reducing the risk of unexpected failures. Consistent performance is crucial in maintaining the efficiency and safety of industrial processes.

Environmental Benefits

Extending the service life of pumps and reducing the need for frequent replacements contribute to sustainability efforts by minimizing waste. Improved energy efficiency owing to reduced friction and wear can lead to lower carbon emissions.

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

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

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
10057791 10057714 10057800



WEICON Ceramic BL

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



Advantages of our solution:

- ▶ function of the pump restored
- ▶ no new purchase necessary

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 | ► 0.5 kg | ► 1.0 kg |
| 10004472 | 10001084 | 10000099 |



WEICON Ceramic BL

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



Cleaner Spray S

- 500 ml
10000147

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 pump



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 10004472
- 0.5 kg 10001084
- 1.0 kg 10000099



Cleaner Spray S

- 500 ml 10000147



WEICON GL

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



WEICON Ceramic BL

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

Advantages of our solution:

- restoration of their functionality
- extension of service life
- avoidance of an expensive new purchase

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 sewage pipes



Description:

- ▶ Repair of one of the return pipes of the sewage treatment basin was required
- ▶ The area of damage was located in the pumping station
- ▶ The diameter of the pipeline is 600/800 mm
- ▶ Over the years holes from 1 mm to approx. 15 mm have been formed due to corrosion
- ▶ The repair took five hours



WEICON Pipe Repair-Kit



Certified to
NSF/ANSI 61
Facility #1 USA

5/15

▶ 5 cm x 1.5 m
10055737
white

5/35

▶ 5 cm x 3.5 m
10055738
white

10/35

▶ 10 cm x 3.5 m
10055740
white

12/100

▶ 12 cm x 10 m
10058306
white

Cleaner Spray S

▶ 500 ml
10000147

Repair Stick Copper

▶ 57 g 10010227
▶ 115 g 10006609



Certified to
NSF/ANSI 61

Advantages of our solution:

- ▶ dismantling of the pipe was not necessary for the repair
- ▶ the pipe could be put back into operation after around 24 hours



WEICON A

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

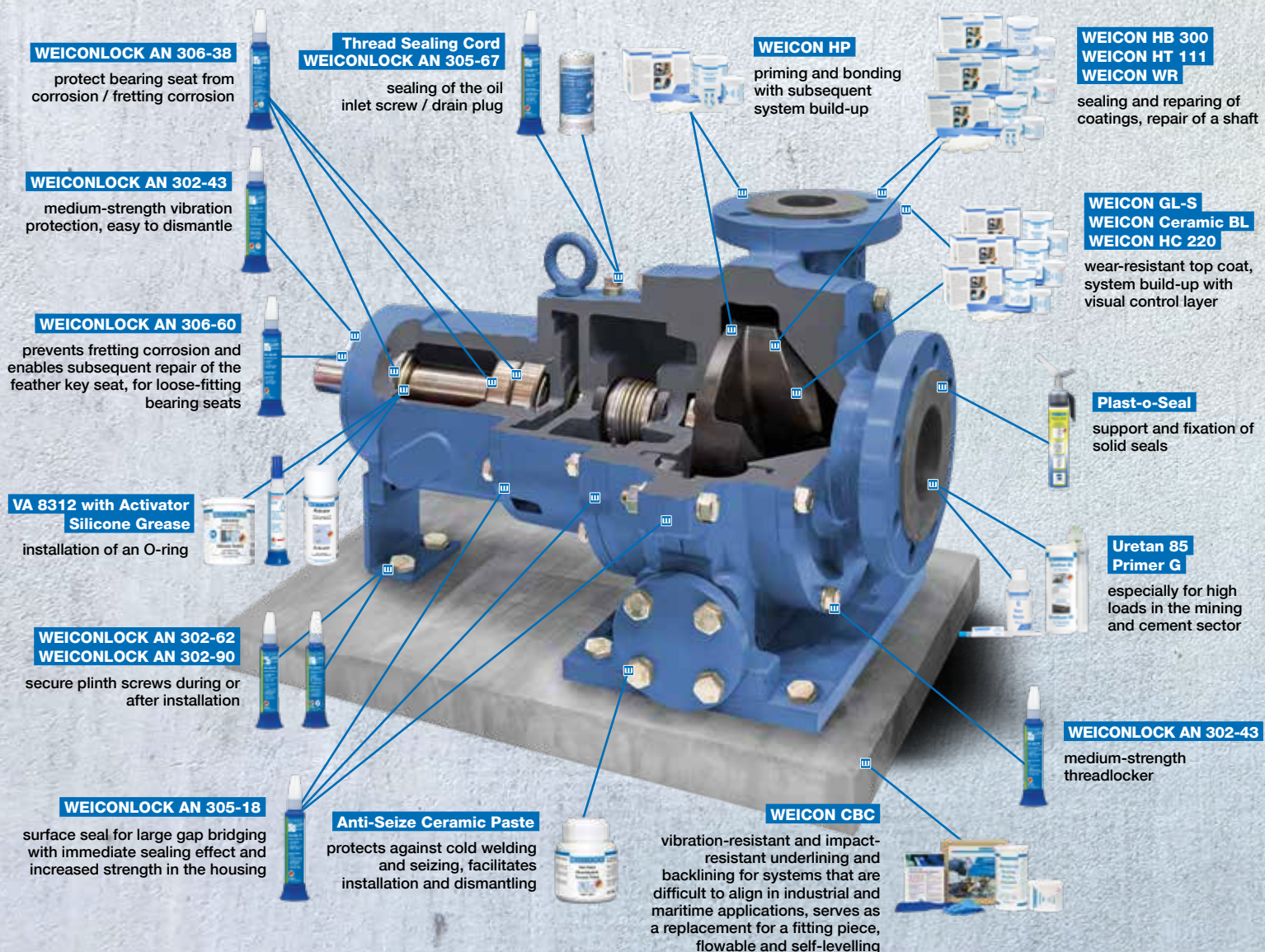


WEICON Ceramic BL


















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






REPAIR OF A CENTRIFUGAL PUMP

- ▶ fast and durable repairs
- ▶ bonding
- ▶ coating
- ▶ gap compensation and filling



PRODUCT OVERVIEW

Name	Art-Nr.	Content
AN 302-43	 	10030474 10 ml
		10016419 20 ml
		10017876 50 ml
		10019968 200 ml
AN 302-62		10019899 20 ml
		10017881 50 ml
		10019976 200 ml
AN 302-90		10019905 20 ml
		10017891 50 ml
		10019993 200 ml
		10019941 50 ml
AN 305-18	 	10019999 200 ml
		10019591 300 ml
		10032101 50 ml
AN 305-67		10033883 200 ml
		10030478 10 ml
AN 306-38	 	10016443 20 ml
		10017888 50 ml
		10020027 200 ml
		10019955 50 ml
AN 306-60		10020040 200 ml
		10034150 300 ml
		10014387 90 g Tube
Plast-o-Seal®		10014388 120 g Brush top can
		10039427 230 g Presspack
		10014389 300 g Cartridge
 Thread Sealing Cord	   	10026655 175 m plastic can
VA 8312	 	10018863 12 g P
		10016432 30 g P
		10019793 60 g P
		10000242 500 g F
CA-Activator		10000282 150 ml
Cleaner Spray S		10000147 500 ml
Rust Converter		10047458 400 ml
Repair Stick Copper	 	10010227 57 g
		10006609 115 g
Pipe Repair-Kit	 	10055737 white
	5/15 5 cm x 1.5 m	10067737 black
	5/35 5 cm x 3.5 m	10055738 white
		10067741 black
	10/35 10 cm x 3.5 m	10055740 white
		10067743 black
	12/100 12 cm x 10 m	10057026 white

Name	Art-Nr.	Content
WEICON Ceramic BL   	10054394	0.2 kg
	10000093	0.5 kg
	10005233	2.0 kg
WEICON Ceramic HC 220	10060702	0.2 kg
	10060705	0.5 kg
	10060707	2.0 kg
WEICON A 	10054381	0.2 kg
	10000003	0.5 kg
	10000006	2.0 kg
WEICON GL	10060361	0.2 kg
	10057714	0.5 kg
	10057800	1.0 kg
WEICON GL-S   	10057791	0.2 kg
	10060362	0.5 kg
	10060363	2.0 kg
WEICON HP	10054393	0.2 kg
	10054003	0.5 kg
	10054004	2.0 kg
WEICON HB 300 	10004472	0.2 kg
	10001084	0.5 kg
	10000099	1.0 kg
WEICON HT 111 	10062982	0.2 kg
	10062984	0.5 kg
	10062985	1.0 kg
WEICON WR	10054400	0.2 kg
	10000077	0.5 kg
	10000078	2.0 kg
WEICON WR2	10054401	0.2 kg
	10000087	0.5 kg
	10000088	2.0 kg
WEICON CBC <i>Chocking Backing Compound</i> 	10045020	3.0 kg
	10045019	10.0 kg
Urethane 85 (Shore-hardness A 85)	10057130	500 g
	10057188	540 g
Primer G	10057199	50 g
Anti-Seize Ceramic Paste	10067867	120 g Brush top can
	10067869	450 g Can
	10000208	1.0 kg Can
Silicone Grease  	10053151	5 g Tube
	10050566	85 g Tube
	10050558	450 g Can
	10050563	1.0 kg Dose
	10051113	5.0 kg Bucket
	10051118	25.0 kg Bucket

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