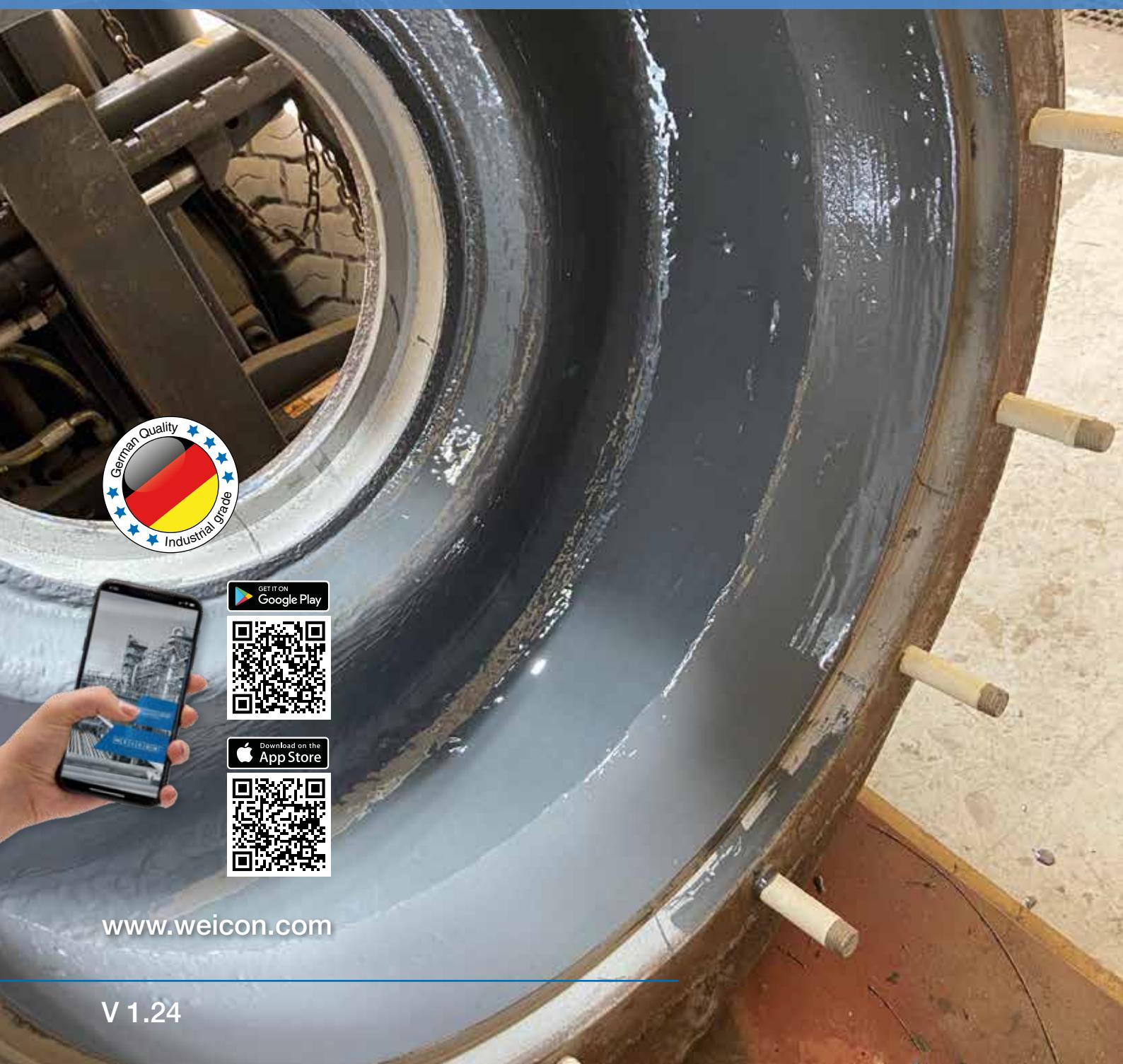




WEICON®

WEICON

APPLICATIONS AND PRODUCTS PUMP REPAIRS



www.weicon.com

V 1.24

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



WEICON A



Cleaner Spray S

- ▶ 500 ml
10000147
- ▶ 0.2 kg
10004472
- ▶ 0.5 kg
10001084
- ▶ 1.0 kg
10000099



WEICON HB 300

- ▶ 0.2 kg
10057791
- ▶ 0.5 kg
10057714
- ▶ 1.0 kg
10057800
- ▶ 0.2 kg
10054394
- ▶ 0.5 kg
10000093
- ▶ 2.0 kg
10005233



WEICON GL



WEICON Ceramic BL

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



Cleaner Spray S

- ▶ 500 ml
- 10000147



WEICON Ceramic BL

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



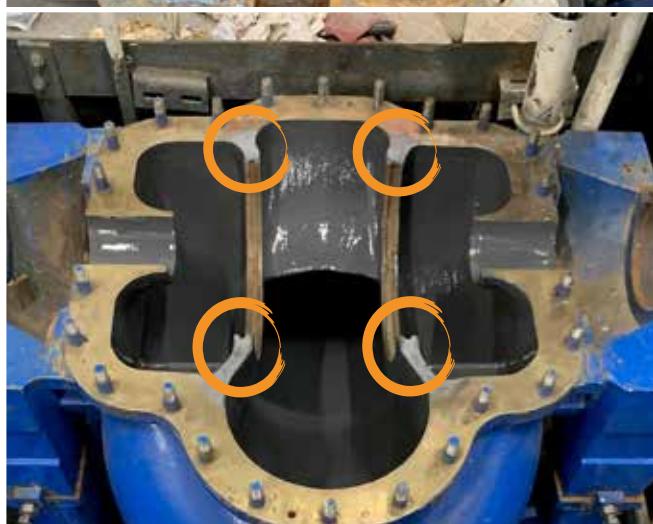
WEICON Ceramic BL

► 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 | ▶ 0.5 kg | ▶ 2.0 kg |
| 10060702 | 10060705 | 10060707 |



Cleaner Spray S

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



WEICON WR2

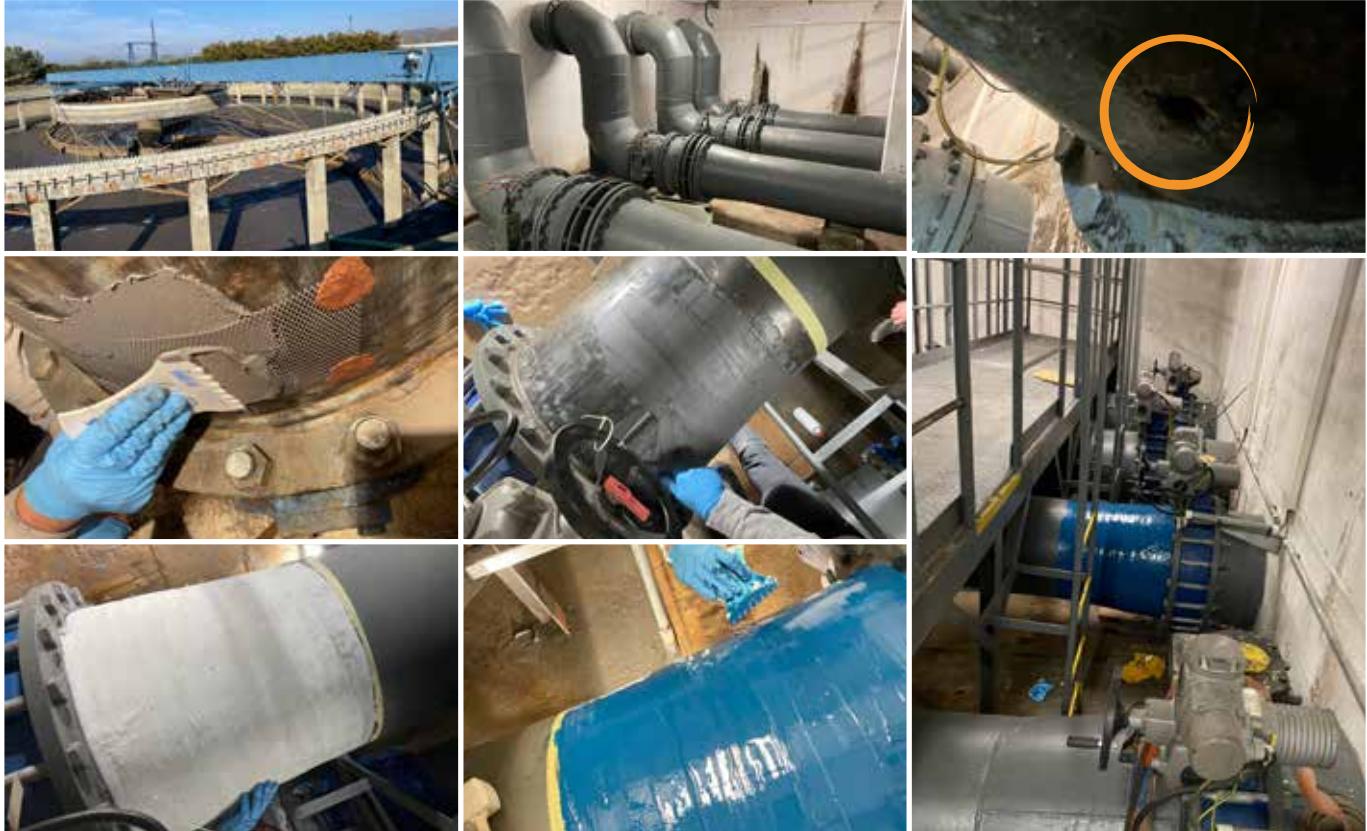
- | | | |
|----------|----------|----------|
| ▶ 0.2 kg | ▶ 0.5 kg | ▶ 2.0 kg |
| 10054401 | 10000087 | 10000088 |

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

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
Facility #1 USA

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

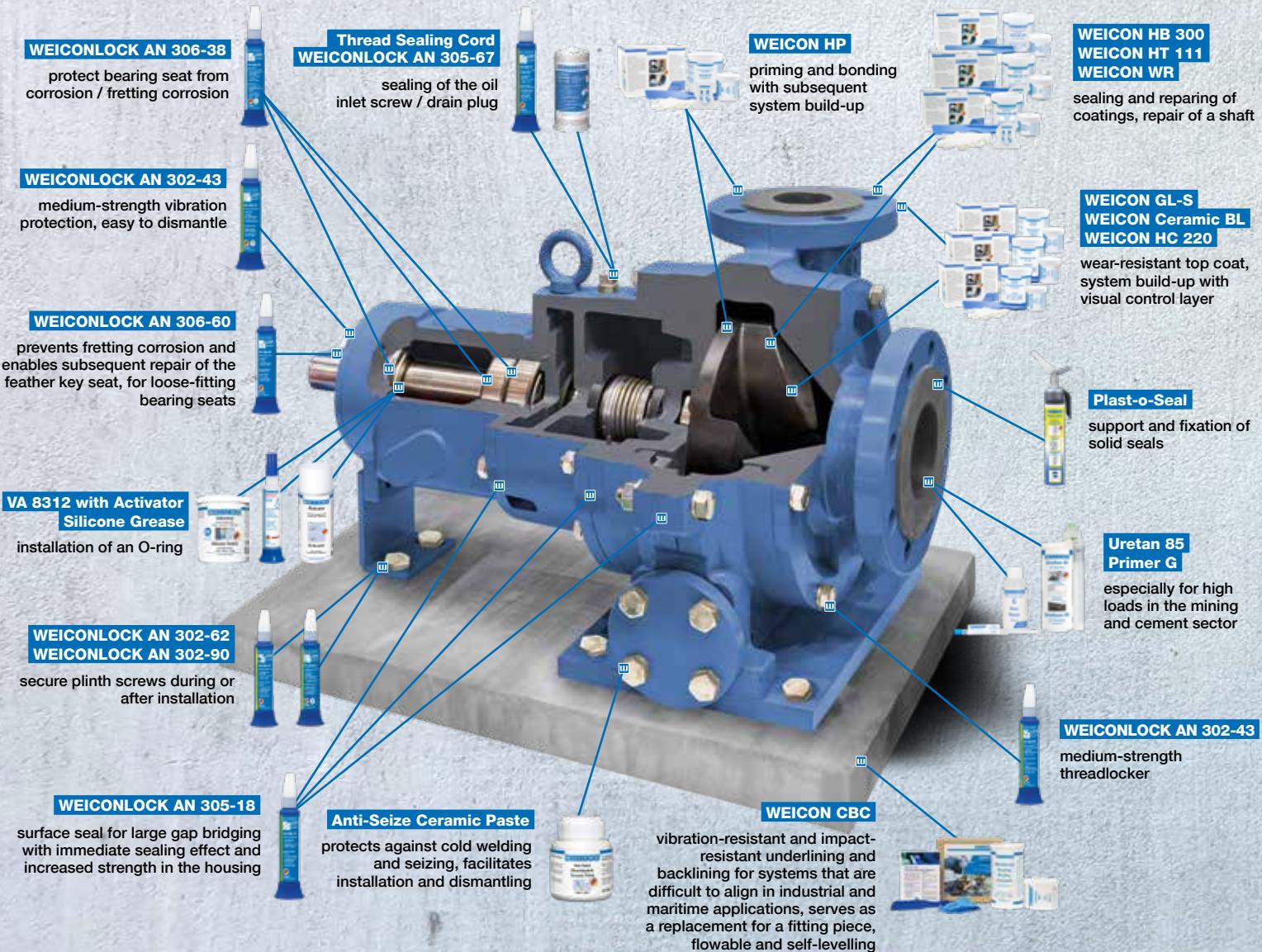
► 0.5 kg
10000093

► 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	Name	Art-Nr.	Content
AN 302-43	10030474	10 ml	WEICON Ceramic BL	10054394	0.2 kg
	10016419	20 ml		10000093	0.5 kg
	10017876	50 ml		10005233	2.0 kg
	10019968	200 ml		10060702	0.2 kg
	10019899	20 ml	WEICON Ceramic HC 220	10060705	0.5 kg
AN 302-62	10017881	50 ml		10060707	2.0 kg
	10019976	200 ml	WEICON A	10054381	0.2 kg
	10019905	20 ml		10000003	0.5 kg
AN 302-90	10017891	50 ml		10000006	2.0 kg
	10019993	200 ml		10060361	0.2 kg
	10019941	50 ml	WEICON GL	10057714	0.5 kg
AN 305-18	10019999	200 ml		10057800	1.0 kg
	10019591	300 ml	WEICON GL-S	10057791	0.2 kg
	10032101	50 ml		10060362	0.5 kg
AN 305-67	10033883	200 ml		10060363	2.0 kg
	10030478	10 ml	WEICON HP	10054393	0.2 kg
	10016443	20 ml		10054003	0.5 kg
AN 306-38	10017888	50 ml		10054004	2.0 kg
	10020027	200 ml	WEICON HB 300	1004472	0.2 kg
	10019955	50 ml		10001084	0.5 kg
AN 306-60	10020040	200 ml		10000099	1.0 kg
	10034150	300 ml	WEICON HT 111	10062982	0.2 kg
	10014387	90 g Tube		10062984	0.5 kg
Plast-o-Seal®	10014388	120 g Brush top can		10062985	1.0 kg
	10039427	230 g Presspack	WEICON WR	10054400	0.2 kg
	10014389	300 g Cartridge		10000077	0.5 kg
	10026655	175 m plastic can		10000078	2.0 kg
Thread Sealing Cord	10026655	175 m plastic can	WEICON WR2	10054401	0.2 kg
X-BAM TZW	100% PTFE			10000087	0.5 kg
	UL-TESTED			10000088	2.0 kg
VA 8312	10018863	12 g P	WEICON CBC	10045020	3.0 kg
	10016432	30 g P	Chocking Backing Compound		
	10019793	60 g P		10045019	10.0 kg
	10000242	500 g F	Urethane 85 (Shore-hardness A 85)	10057130	500 g
CA-Activator	10000282	150 ml		10057188	540 g
Cleaner Spray S	10000147	500 ml	Primer G	10057199	50 g
Rust Converter	10047458	400 ml		10067867	120 g Brush top can
Repair Stick Copper	10010227	57 g		10067869	450 g Can
	10006609	115 g	Anti-Seize Ceramic Paste	10000208	1.0 kg Can
Pipe Repair-Kit	5/15 5 cm x 1.5 m	white		10053151	5 g Tube
	10055737	black		10050566	85 g Tube
	10067737	white	Silicone Grease	10050558	450 g Can
	5/35 5 cm x 3.5 m	white		10050563	1.0 kg Dose
	10055738	black		10051113	5.0 kg Bucket
	10067741	white		10051118	25.0 kg Bucket
	10055740	black			
	10067743	white			
	12/100 12 cm x 10 m	white			
	10057026	white			

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