



WEICON

APPLICATIONS AND PRODUCTS

MARINE INDUSTRY



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WHERE YOU CAN USE...

WEICON CBC Chocking Backing Compound

Specially developed for the shimming and back filling of systems that are difficult to align.



WEICON Ceramic BL

Coating of a butterfly valve.



WEICON Ceramic BL

Coating of ship propellers.



WEICON Urethane 85

Repair of a shaft seal ring on a ship propulsion system.



WEICON WR

Repair of a ship propulsion shaft. Repairing and filling the damage caused by cavitation.



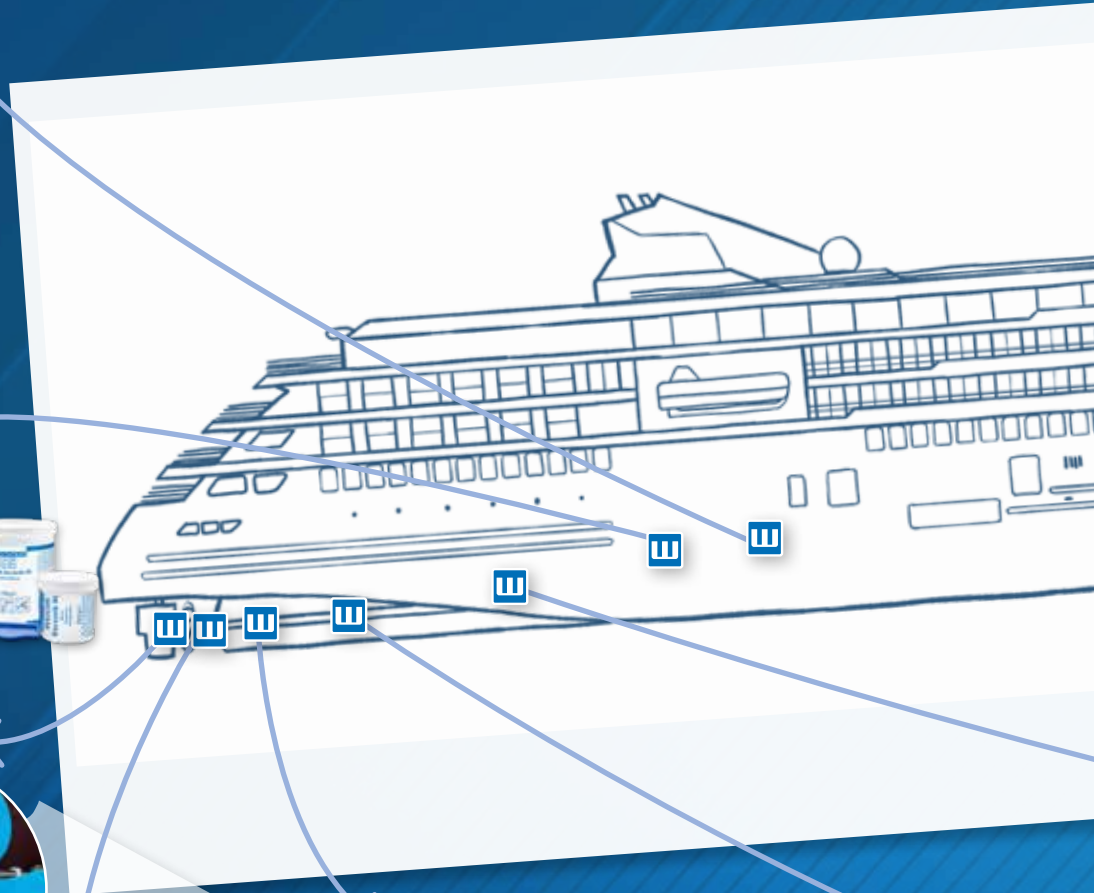
WEICON Ceramic BL

Corrosion protection coating with WEICON Ceramic BL.



WEICON Urethane 80

Final coating for protection against marine animals.





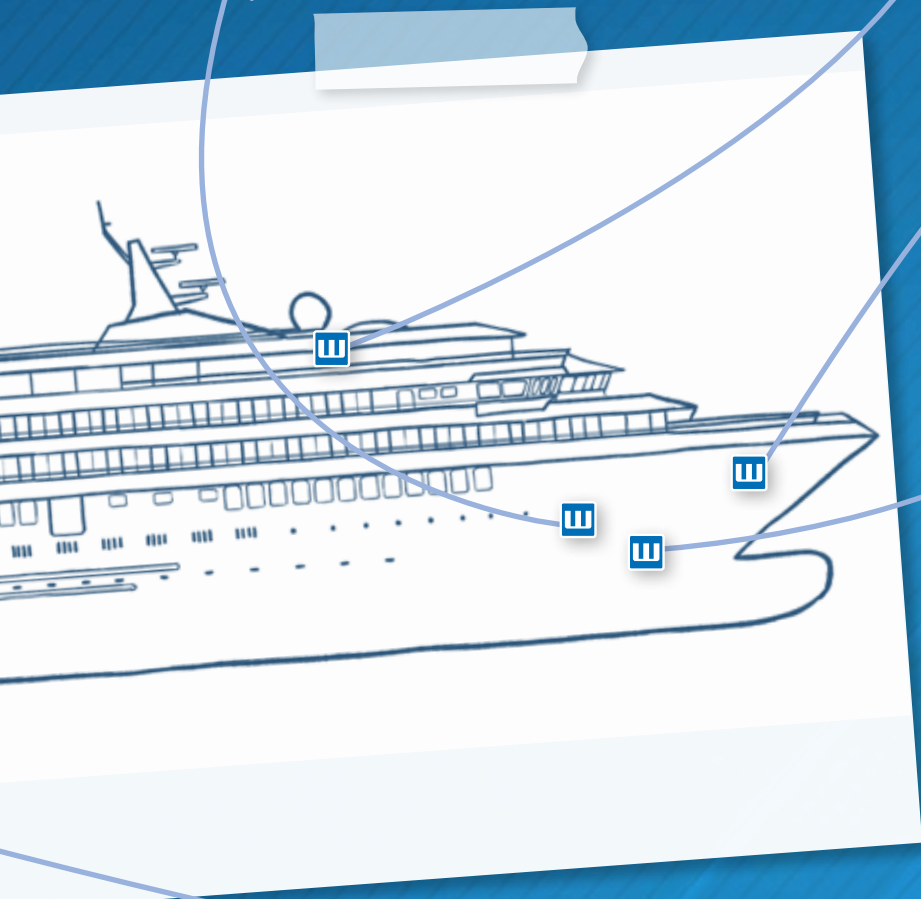
W 44 T®

Combines corrosion protection, water repellency, lubrication, conservation and cleaning in one single product.



VA 100

WEICON Contact VA 100 is a universal type for the bonding of metals, plastic and rubber.



WEICON A

Gap compensation on the anchor capstan.



WEICON HB 300

Sealing of the stabilizer shaft.



WEICON BR

Repair of a bronze propeller shaft.



Fast-Metal Minute Adhesive

Repair of the cylinder block of a ship engine.



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

- ▶ 500 ml
11202500
IMPA: 45 08 01



WEICON HB 300

- ▶ 0,2 kg ▶ 0,5 kg ▶ 1,0 kg
- 10450002 10450005 10450010
- IMPA: 81 29 51



WEICON Ceramic BL

- ▶ 0,2 kg ▶ 0,5 kg ▶ 2,0 kg
- 10400002 10400005 10400020
- IMPA: 81 29 37 IMPA: 81 29 38



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
10710515
- ▶ 5 cm x 3,5 m
10710536
- ▶ 10 cm x 3,5 m
10711036



Advantages of our solution:

- ▶ Simple, inexpensive and reliable sealing

Fixing indicators on chain links for quality assurance



Description:

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



Cleaner Spray S

- ▶ 500 ml
- 11202500
- IMPA: 45 08 01



Epoxy Minute Adhesive

- ▶ 24 ml
- 10550024

Advantages of our solution:

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

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
- 11202500
- IMPA: 45 08 01



Primer G

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

- ▶ 50 g
- 10809050



WEICON Urethane 85

Shore hardness: A 85

- ▶ 500 g
- ▶ 540 g
- 10800005 Work Package
- 10800540 Cartridge

Advantages of our solution:

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

Repair and coating of a steel platform



Description:

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



WEICON Ceramic BL

- | | | |
|----------|----------------|----------------|
| ▶ 0,2 kg | ▶ 0,5 kg | ▶ 2,0 kg |
| 10400002 | 10400005 | 10400020 |
| | IMPA: 81 29 37 | IMPA: 81 29 38 |



Rust Converter

- ▶ 400 ml
- 11155400
- IMPA: 45 08 20



Advantages of our solution:

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

Renewal of the anti-slip coating on a sailing yacht



Description:

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



Cleaner Spray S

▶ 500 ml
11202500
IMPA: 45 08 01



GMK 2510

▶ 324 g ▶ 690 g
16200324 16200690
IMPA: 81 52 39 IMPA: 81 52 40

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

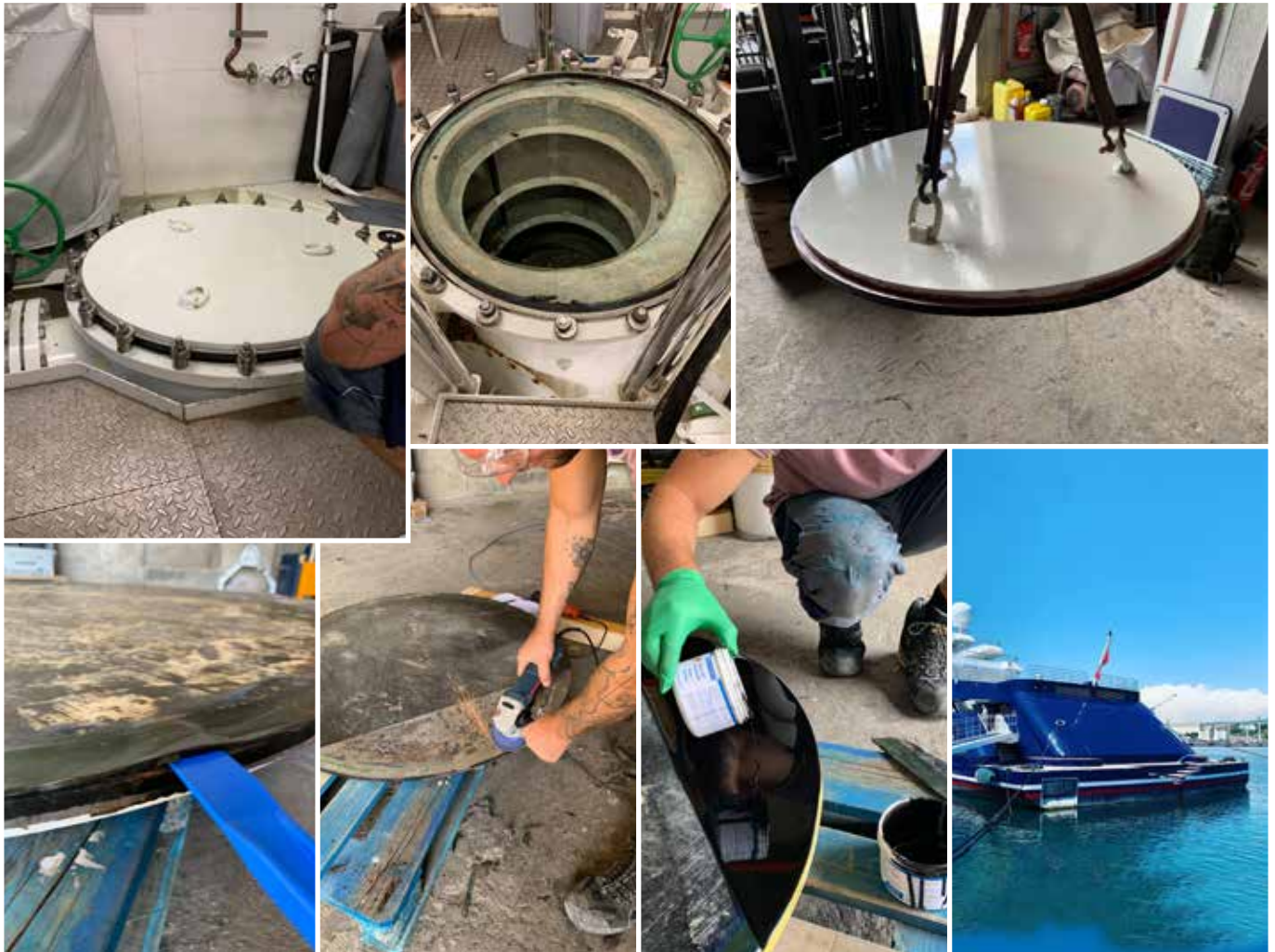
Work Package
(consisting of 650
g adhesive, 40 g
bonding agent and
processing spatula)

Advantages of our solution:



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

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
- 11202500
- IMPA: 45 08 01

Advantages 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

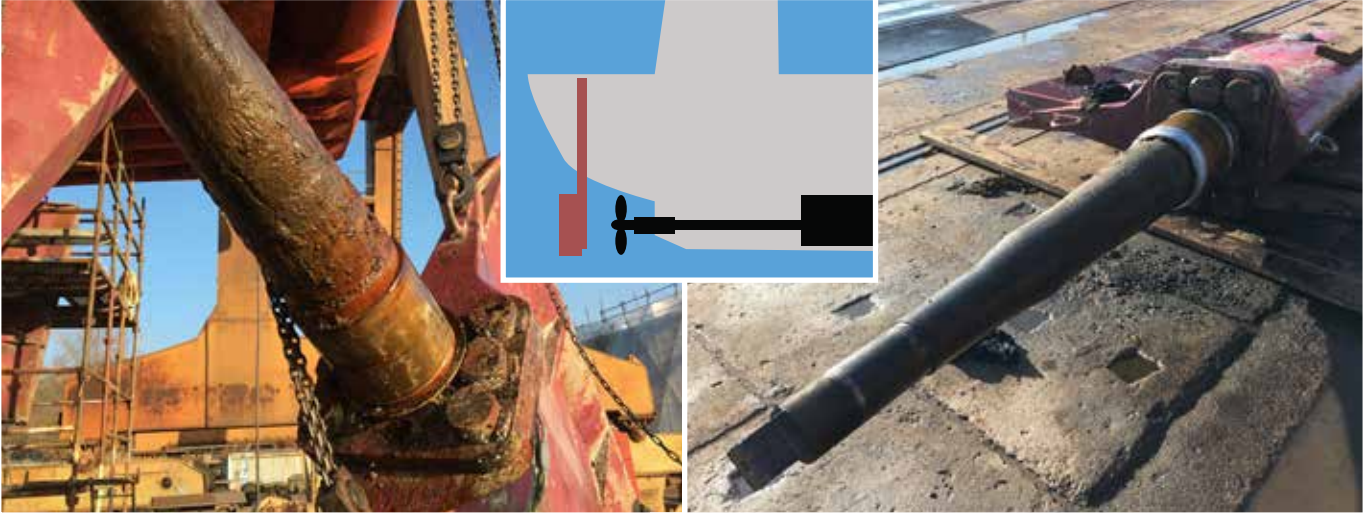


Urethane 80

Shore hardness: A 80

- ▶ 500 g
- 10518005
- IMPA: 81 29 63

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



Description:

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



WEICON Ceramic BL

Cleaner Spray S

▶ 0,2 kg
10400002

▶ 0,5 kg
10400005

▶ 2,0 kg
10400020

IMPA: 81 29 37

IMPA: 81 29 38

▶ 500 ml
11202500

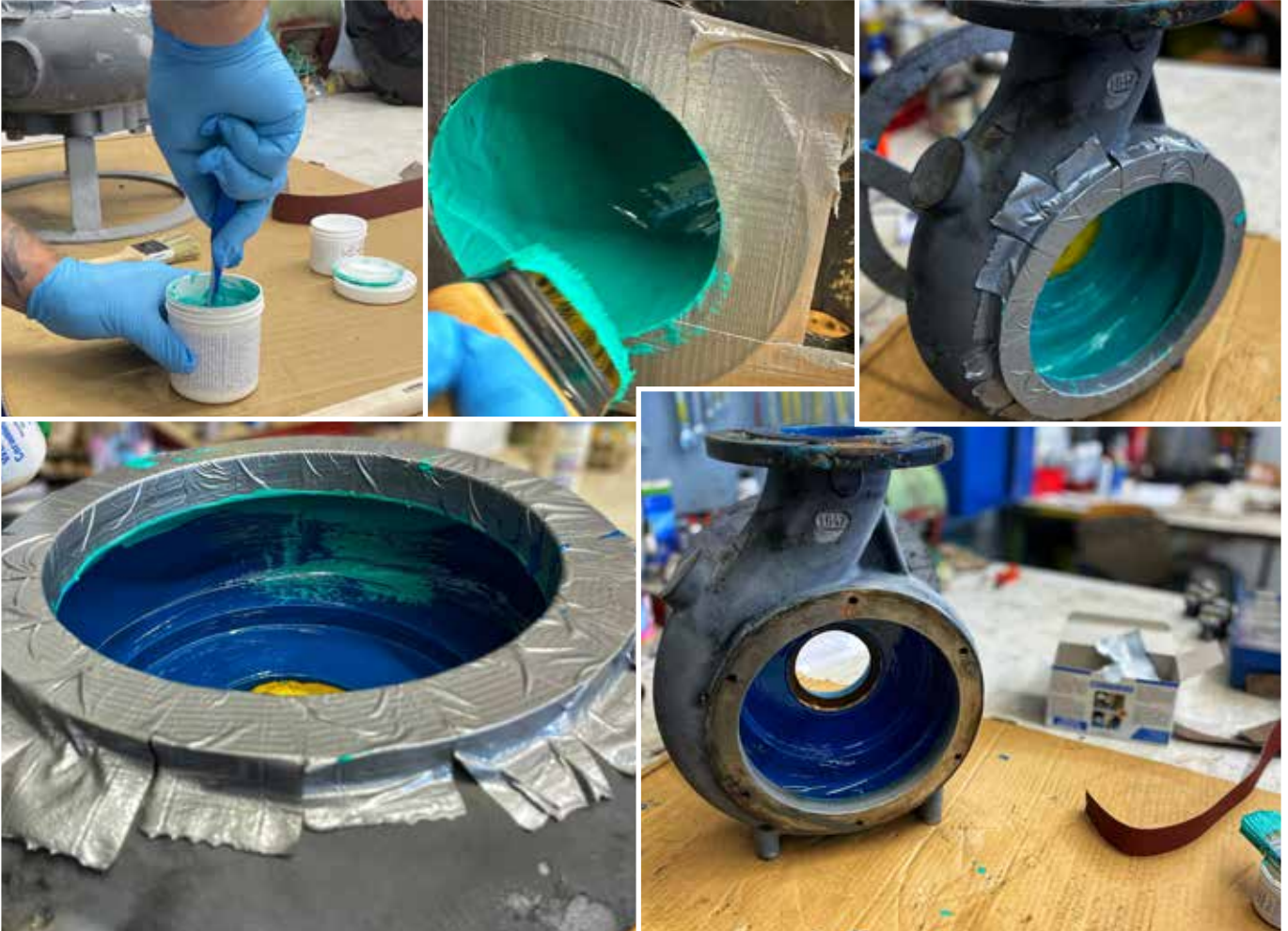
IMPA: 45 08 01

Advantages of our solution:



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

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

- ▶ 0,5 kg 10700005
- ▶ 1,0 kg 10700010

Cleaner Spray S

- ▶ 500 ml
- 11202500
- IMPA: 45 08 01



WEICON Ceramic BL

- ▶ 0,2 kg 10400002
- ▶ 0,5 kg 10400005
- ▶ 2,0 kg 10400020
- IMPA: 81 29 37
- IMPA: 81 29 38



Advantages 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

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 10120002
- ▶ 0,5 kg 10120005
- ▶ 2,0 kg 10120020



Cleaner Spray S

- ▶ 500 ml 11202500
- IMPA: 45 08 01



WEICON WR2

- ▶ 0,5 kg 10350005
- ▶ 2,0 kg 10350020

Advantages 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

Coating of ship propellers



Description:

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



WEICON Ceramic BL

- ▶ 0,2 kg
10400002
- ▶ 0,5 kg
10400005
IMPA: 81 29 37
- ▶ 2,0 kg
10400020
IMPA: 81 29 38



Cleaner Spray S

- ▶ 500 ml
11202500
IMPA: 45 08 01



Advantages of our solution:

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

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
11202500
IMPA: 45 08 01



WEICON A

▶ 0,2 kg ▶ 0,5 kg ▶ 2,0 kg
10000002 10000005 10000020
IMPA: 81 29 01 IMPA: 81 29 02



Rust Protection 2000 PLUS

▶ 400 ml
11013400
silver grey



WEICON Keramik BL

▶ 0,2 kg ▶ 0,5 kg
10400002 10400005
IMPA: 81 29 37

▶ 2,0 kg
10400020
IMPA: 81 29 38

Advantages of our solution:

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

Repair of a bronze propeller shaft



Description:

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



WEICON BR

- ▶ 0,2 kg 10420002
- ▶ 0,5 kg 10420005
- ▶ 2,0 kg 10420020
- IMPA: 81 29 10
- IMPA: 81 29 11



Cleaner Spray S

- ▶ 500 ml 11202500
- IMPA: 45 08 01

VIDEO



Advantages of our solution:

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

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

10800005
Work Package

▶ 540 g

10800540
Cartridge



Primer G

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

▶ 50 g

10809050



Advantages of our solution:

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

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
- 11202500
- IMPA: 45 08 01



WEICON BR

- | | | |
|----------------|----------|----------------|
| ▶ 0,2 kg | ▶ 0,5 kg | ▶ 2,0 kg |
| 10420002 | 10420005 | 10420020 |
| IMPA: 81 29 10 | | IMPA: 81 29 11 |



WEICON Ceramic BL

- | | | |
|----------------|----------|----------------|
| ▶ 0,2 kg | ▶ 0,5 kg | ▶ 2,0 kg |
| 10400002 | 10400005 | 10400020 |
| IMPA: 81 29 37 | | IMPA: 81 29 38 |



Advantages of our solution:

- ▶ Cheaper and faster than a new purchase



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

- ▶ 0,5 kg 10390005
- ▶ 2,0 kg 10390020



WEICON Ceramic BL

- ▶ 0,2 kg 10400002
- ▶ 0,5 kg 10400005
- ▶ 2,0 kg 10400020
- IMPA: 81 29 37
- IMPA: 81 29 38



Advantages 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

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

▶ 500 ml
11202500
IMPA: 45 08 01



Rust Converter

▶ 400 ml
11155400
IMPA: 45 08 20



WEICON Ceramic BL

▶ 0,2 kg 10400002 ▶ 0,5 kg 10400005 ▶ 2,0 kg 10400020
IMPA: 81 29 37 IMPA: 81 29 38

Advantages of our solution:

- ▶ Restoration of spare parts that are no longer available

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



Description:

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



Cleaner Spray S

▶ 500 ml
11202500
IMPA: 45 08 01



Urethane 85

Shore hardness: A 85

▶ 500 g 10800005 Work Package
▶ 540 g 10800540 Cartridge



Primer G

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

▶ 50 g
10809050



Dispenser 2C 10:1

recommended for the 2-component 540g cartridge

10653491



Advantages of our solution:

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



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
11155400
IMPA: 45 08 20



WEICON A

- ▶ 0,2 kg
10000002
- ▶ 0,5 kg
10000005
- ▶ 2,0 kg
10000020
IMPA: 81 29 01 IMPA: 81 29 02



Cleaner Spray S

- ▶ 500 ml
11202500
IMPA: 45 08 01



WEICON HB 300

- ▶ 0,2 kg
10450002
- ▶ 0,5 kg
10450005
- ▶ 1,0 kg
10450010
IMPA: 81 29 51



WEICON GL

- ▶ 0,2 kg
10700002
- ▶ 0,5 kg
10700005
- ▶ 1,0 kg
10700010



WEICON Ceramic BL

- ▶ 0,2 kg
10400002
- ▶ 0,5 kg
10400005
IMPA: 81 29 37
- ▶ 2,0 kg
10400020
IMPA: 81 29 38

Advantages of our solution:

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



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



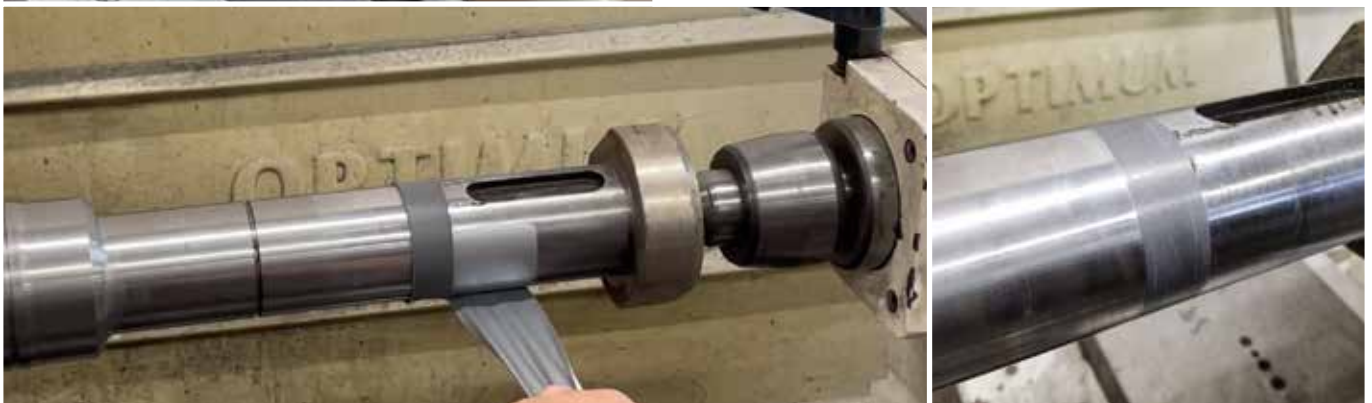
- | | | |
|----------------------|----------------------|--|
| ▶ 0,2 kg
10450002 | ▶ 0,5 kg
10450005 | ▶ 1,0 kg
10450010
IMPA: 81 29 51 |
|----------------------|----------------------|--|

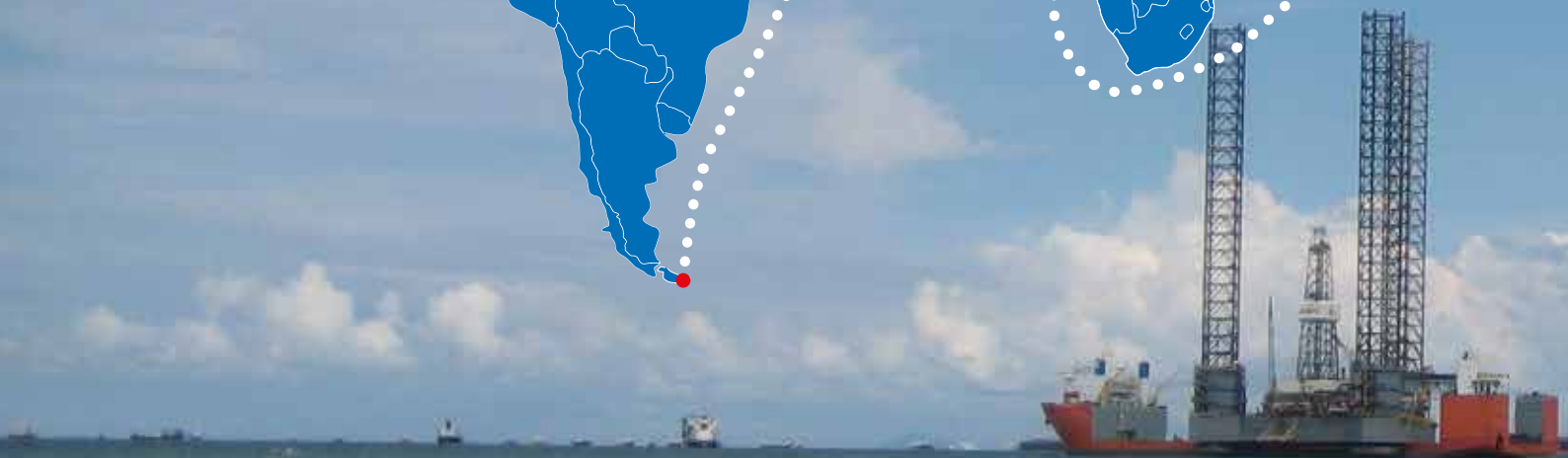
VIDEO



Advantages 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





Offshore

Transport of an oil rig

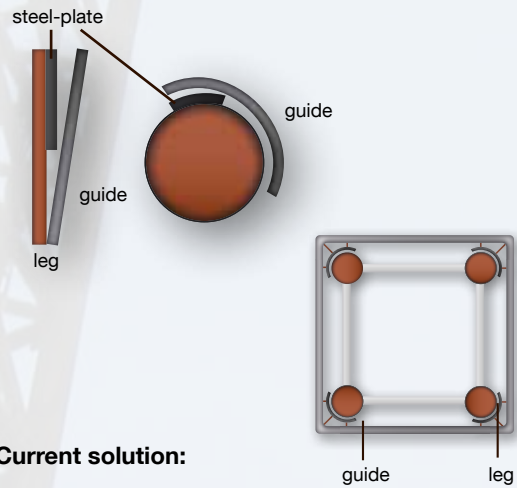




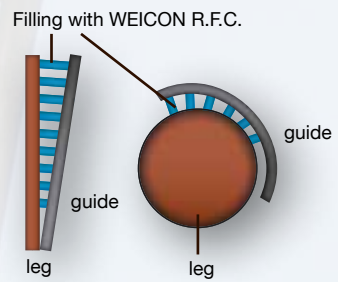
Securing the transport of an oilrig with WEICON Plastic Metal RFC, a specially developed type for extreme requirements in the off-shore sector.

1.500 – 2.000 kg of WEICON Plastic Metal RFC are used for each transport job.

Previous solution:



Current solution:



Offshore

Transport of an oil rig



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WEICON

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