



# Golten's

## Repair of deteriorated machine parts

- Around the world
- Around the clock
- Fast solution
- Long lasting solution
- Cannot corrode
- Approved by Class
- Short delivery time
- Cost effective



## WENCON®

Full support - when you need it

# WENCON®

## Product Information

## Wencon Cream

The basic multipurpose epoxy compound for repair and rebuilding of deteriorated metal parts

- Wide range of applications
- Strong adhesion to all surfaces
- Low curing temperature
- Simple mixing and application
- Fully machinable

Wencon Cream is a basic two-component, epoxy compound with a wide range of applications for repair and rebuilding of worn, damaged, cracked and corroded metal parts.

Typical applications are corroded tanks, pump housings, impellers, valves, pipes, flange faces, roller bearing seats, worn shafts, hydraulic rams and heat exchangers. Wencon Cream is also excellent as a filling compound.

Wencon Cream exhibits many of the characteristics of metals, which together with outstanding adhesion to all metallic surfaces makes the repair compound highly suitable for repair of corroded and worn metals.

Wencon Cream is non conducting and can therefore not corrode or bi-metallic corrode. After curing the compound is resistant to oil, water, saltwater and most diluted acids and a range of solvents. Heat resistance ranges from 60° C (140° F) in corrosive and heavy load environments and up to 250° C (482°F) when applied as a filling compound.

Wencon Cream can be machined, drilled and worked like metal after curing. The compound has a paste consistency and is easily applied by spatula also to vertical surfaces.

Wencon products are designed to be simple to use and cost effective. Easy mixing ratios (1:1 by volume) reduce waste to a minimum and high specific volumes give high coverage rates.

### Product numbers:

No. 1010 Wencon Cream, 1 kg (2,2 lb) unit

### IMPA no.

812335

### ISSA no.

75.553.20



No. 2 - 01.07.2007



### Wencon Rapid

The fast curing multipurpose epoxy compound for repair and rebuilding of deteriorated metal parts

- Fast curing – reduced down time
- Wide range of applications
- Strong adhesion to all surfaces
- Simple mixing and application
- Convenient unit sizes

Wencon Rapid is a fast curing, two-component, epoxy compound with a wide range of applications for emergency repairs and maintenance.

Typical applications are emergency repairs where a short curing time is required to reduce down time. Wencon Rapid is very suitable for applications where thicker layers of material are required as the compound quickly sets and becomes solid. The compound can also be used for regular maintenance jobs and as a filling compound.

Wencon Rapid exhibits many of the characteristics of metals, which together with outstanding adhesion to all metallic surfaces makes the repair compound highly suitable for repair of corroded and worn metals.

Wencon Rapid is non conducting and can therefore not corrode or bi-metallic corrode. After curing the compound is resistant to oil, water, saltwater and most diluted acids and a range of solvents. Heat resistance ranges from 60° C (140°F) in corrosive and heavy load environments and up to 250° C (482°F) when applied as a filling compound.

Wencon Rapid can be machined, drilled and worked like metal after curing. The compound has a paste consistency and is easily applied by spatula also to vertical surfaces.

For convenience, Wencon Rapid is available in two unit sizes. The one kilo unit for large repairs and the practical 8x125g unit for the small and quick repair jobs.

Wencon products are designed to be simple to use and cost effective. Easy mixing ratio (1:1 by volume) reduces waste to a minimum and high specific volumes give high coverage rates

**Product numbers:**

No. 1000 Wencon Rapid, 1 kg (2,2 lb) unit  
 No. 1005 Wencon Rapid 8, 8x125g (8x0,28 lb) unit

**IMPA no.**

812347  
 812343

**ISSA no.**

75.553.21  
 75.553.22



No. 2 - 01.07.2007



Mix 1:1



## Wencon Coating

The versatile and cost effective coating product for general repair, maintenance and protection jobs.

- Strong adhesion to all surfaces
- Efficient double coat system
- Easy mixing and application
- High coverage rate
- Fully machinable

Wencon Coating is a two-component, liquid epoxy coating suitable for a wide range of applications. It provides a smooth non porous surface, which is resistant to bi-metallic corrosion, light chemical aggression, corrosion and erosion as well as impingement.

Typical applications are coating of surfaces rebuild after deterioration, protection of tanks, pumps, valves, wet liners, cooler end covers etc. against corrosion and bi-metallic corrosion as well as a variety of small and large repair and maintenance jobs.

Wencon Coating has been developed for use in marine, offshore and industry and is suitable for a wide range of applications.

Wencon Coating offers resistance to oil, water, saltwater and most diluted acids and alkalis as well as a range of solvents. Heat resistance ranges from 60° C (140°F) in corrosive and heavy load environments and up to 250° C (482°F) when applied as a filling compound.

Wencon Coating is a double coat system and is consequently supplied in two different colours, white and blue. The product is liquid and is applied by brush, roller or spatula.

The Wencon products are designed to be simple to use and cost effective. Easy mixing ratio (2:1 by volume) reduce waste to a minimum and high specific volumes give high coverage rates.

### Product numbers:

No. 1020 Wencon Coating, white 0,5 kg (1,1 lb)  
 No. 1030 Wencon Coating, blue 0,5 kg (1,1 lb)

### IMPA no.

812337  
 812338

### ISSA no.

75.553.10  
 75.553.11



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### Wencon Hi-Temp

The high performance coating product for repair and protection in high temperature and aggressive environments

- High heat resistance
- Good chemical resistance
- Excellent mechanical wear properties
- Strong adhesion to all surfaces
- Fully machinable

Wencon Hi-Temp is a high performance two-component, liquid epoxy coating developed for applications in high load areas. It provides a smooth non porous surface, which is resistant to high temperatures, strong chemical aggression and wear as well as bi-metallic corrosion.

Typical applications are coating of surfaces rebuild after deterioration including repair of lining on inert gas systems, fresh water generators, hot pipes and heating coils, protection of tanks, pumps and valves against chemical and mechanical aggression, corrosion and bi-metallic corrosion.

Wencon Hi-Temp has been developed for use in marine, offshore and industry and is suitable for a wide range of applications where high performance characteristics are required.

Wencon Hi-Temp offers resistance to oil, water, saltwater and wide range of acids and alkalis as well as a range of solvents. Heat resistance ranges from 160° C (320°F) in corrosive and heavy load environments and up to 300° C (570°F) when applied as a filling compound.

Wencon Hi-Temp is a double coat system and is consequently supplied in two different colours, yellow and green. The product is liquid and is applied by brush, roller or spatula.

The Wencon products are designed to be simple to use and cost effective. Easy mixing ratio (1:2 by volume) reduce waste to a minimum and high specific volumes give high coverage rates.

**Product numbers:**

		<b>IMPA no.</b>	<b>ISSA no.</b>
No. 1050	Wencon Hi-Temp, yellow, 0,5 kg (1,1 lb) unit	812345	75.553.12
No. 1060	Wencon Hi-Temp, green, 0,5 kg unit (1,1 lb)	812346	75.553.13



No. 2 - 01.07.2007



Mix 2:1



## Wencon Putty

The quick curing, ready to use, mouldable, epoxy repair stick

- Cures in 10-20 minutes
- Simple cut-knead-apply procedure
- Patches and seals cracks, leakages and holes
- Good adhesion to all surfaces
- Fully machinable

Wencon Putty is a very quick curing, two component, epoxy compound supplied in a practical and easy to use stick format.

This multipurpose epoxy paste is ideal for wide range of emergency repairs where an ultra quick curing and mouldable compound is required. Typical applications are patching sealing and filling of cracks, leakages and holes in pipes, on flanges, in tanks etc.

The base and activator is co-extruded into a 125g stick. Simply cut off the required amount of repair compound, knead it until an even colour is obtained and apply it to the damaged area. Wencon Putty cures in 10-20 minutes, can be machined after 30 minutes and obtains full mechanical strength after only 2 hours.

Wencon Putty can be machined, drilled and worked like metal after curing.

Wencon Putty exhibits many of the characteristics of metals, which together with a good adhesion to all metallic surfaces makes the repair compound highly suitable for repair of corroded and worn metals.

Wencon Putty is non conducting and can therefore not corrode or bi-metallic corrode. After curing the compound is resistant to oil, water, saltwater and most diluted acids and a range of solvents. Heat resistance ranges from 60° C (140°F) in corrosive and heavy load environments and up to 250° (482°F) C when applied as a filling compound.



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### Product numbers:

No. 1040 Wencon Putty, 8x125g (8x0,28 lb) unit

### IMPA no. ISSA no.

812342 75.553.40

# Wencon Pipe Tape

The instant repair bandage for leaking pipes

- Quick and effective to use
- No mixing – No tools
- Water activated
- Ready for use in 10 seconds – Cures in 10 minutes
- Suitable for all pipes and surfaces

Wencon Pipe Tape is a fast curing pipe repair bandage especially formulated to make quick and effective repairs of cracks, leaks, fractures, and corrosion porosity in piping carrying water, oil, steam, most gases and even solvents. Wencon Pipe Tape has good pressure, temperature and chemical resistance.

Wencon Pipe Tape is a pre impregnated fibreglass bandage ready for use after soaking in water for 10 seconds. After 10 minutes cure the bandage hardens and the pipe can usually be reactivated. The bandage is fully cured within 1 hour.

The knitted – non-woven fibreglass structure gives the bandage maximum strength and facilitates repairs on corner joints, elbows and other shaped fittings.

Wencon Pipe Tape is available in two standard sizes; 5x150 cm (60 inch.), designed for pipes up to 50mm (2 inch) diameter and; 5x350cm, (140 inch) designed for pipes up to 125mm (5 inch) diameter. For larger diameters use a second bandage to complete the repair.

Repairs with Wencon Pipe Tape require no tools. Besides the pipe bandage the package also contains protective gloves and plastic bags for water.

If the pipe can not be emptied or when high pressure repairs are required, Wencon Putty can be used to stop the leakage and reinforce the repair.

The Wencon Pipe Repair Kit contains Wencon Putty as well as repair bandages, gloves and plastic bags.



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### Product numbers:

No. 1045	Wencon Pipe Tape, 5 units (5x150 cm) (2x60 inch)	812344	75.553.30
No. 1046	Wencon Pipe Tape, 4 units (5x350 cm) (2x140 inch)	812348	75.553.31
No. 1047	Wencon Pipe Repair Kit, 2 units/75g (5x150 cm - 2x60 inch + putty)		
No. 1048	Wencon Pipe Repair Kit, 5 units/125g (5x150 cm - 2x140 inch+ putty)		

### IMPA no.

### ISSA no.

## Wencon Exhaust Repair Kit

The high temperature resistant cold weld exhaust repair product

- Resists temperatures up to 1300° C (2400° F)
- Resists direct flame contact
- Repairs cracks, fills holes and pits
- Quick cure when heated
- One component compound – no mixing, just stir

Wencon Exhaust Repair is a one component steel cold weld product that can be used to repair cracks and holes in equipment that is exposed to temperatures up to 1300° C (2400°F)

Typical applications include engine heads, blocks and manifolds, as well as furnaces and boilers. Wencon Exhaust Repair is especially valuable in areas and situations where traditional heat welding cannot be accomplished.

Wencon Exhaust Repair cures to 95% at room temperature within three hours of application. 100% cure can be obtained within 24 hours or in only 15 minutes when heat is applied.

Wencon Exhaust Repair can be grinded when cured. The compound has good adhesion on all metal surfaces. Wencon Exhaust Repair will not rust or oxidize and is resistant to chemicals.

*The Wencon Exhaust Repair Kit contains:*

- Wencon Exhaust Repair Compound, 2 x 250 g (2 x 0,23 lb)
- Reinforcement metal mesh, 10 x 50 cm (4 x 20 inch)
- Spatula
- Application data sheet

### Note:

It is important to note, that this product is designed only for external emergency repairs of cracks and leaks.



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### Product numbers:

No. 1070 Wencon Exhaust Repair Kit, 2x250g (2 x 0,23 lb)

### IMPA no.

812340

### ISSA no.

75.553.25

## Wencon UW Cream

The excellent cream for applying under water or on wet surfaces, with a very good adhesion.

- Strong adhesion to all surfaces
- Cures under water and on wet surfaces
- Easy to mix and apply
- Long pot-life under water
- Fully machinable after curing

Wencon UW Cream is a two component cream to be applied under water or on wet surfaces. Wencon UW Cream cures at room temperature. After curing Wencon UW Cream will exhibit a wide range of the characteristics of metal, which together with a good adhesion makes the system most suitable as a repair compound for repairing corroded and worn metal. Wencon UW Cream is non conducting and can neither corrode or bi-metallic corrode.

Typical applications are corroded ship hulls and other underwater parts of ships and/or structures, tanks, pipes, flange faces. It is also excellent to filling gaps under water or on wet surfaces.

After curing Wencon UW Cream is resistant to oil, saltwater, water, most diluted acids and a range of solvents.

Wencon UW Cream has to be mixed above water in 1:3 by volume. The pot life will be ½-1 hour, depending on the temperature. Curing will take place in 10-18 hours, depending on the temperature. Curing requires a temperature of minimum 15°C but better at 17-23°C or higher.



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### Product numbers:

No. 1014 Wencon UW Cream, 0,5 kg (1,1 lb) unit

### IMPA no. ISSA no.

812334 75.553.91

# WENCON®

## Product Information

## Wencon UW Coating

Excellent liquid coating for applying under water, or on wet surfaces.

- Under water applying / wet surface
- Strong adhesion to all surfaces
- Easy mixing and application
- High coverage rate
- Fully machinable

Wencon UW Coating is a two-component product, to be applied under water or on a wet surface and curing at room temperature. After curing, Wencon UW Coating will provide a smooth, non-porous coating, which is resistant to bi-metallic corrosion, light chemical attack, corrosion and impingement.

Wencon UW Coating contains no solvents.

Typical applications are coatings of steel surfaces rebuilt with Wencon UW Cream, and coatings under water - like ships hulls and/or other submerged structures, tanks, pipes and other under water items to be protected against corrosion or bi-metallic corrosion.

Wencon UW coating has been developed for use in the marine industry and Off Shore, where it is not possible to apply on a dry surface.

The coating has to be mixed above water in the mixing ratio 1:3, and can be applied under water by spatula, brush or roller.



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### Product numbers:

No. 1035 Wencon UW Coating, 0,5 kg (1.1 lb) unit

### IMPA no.

812336

### ISSA no.

75.553.92

## Wencon Accessories

The complementary range of products and tools required for a successful application

- Wencon Cleaner
- Wencon Reinforcement Tape
- Wencon Release Agent
- Wencon Aggregate
- Wencon Application Tools

Wencon Accessories are high quality products carefully selected and designed to contribute to making your repair application successful. During an emergency repair, or when planning a scheduled repair or maintenance job, it is important to make sure that you have all the necessary components, tools and aids required at hand before you start.

The application data sheet in the Wencon Repair Manual clearly lists all the products required for the individual application.

Just as important as the repair compound or the coating is the degreasing agent (Wencon Cleaner) that guarantees you the best possible adhesion to surface, or the greasy cream (Wencon Release Agent) that makes sure that the compound or coating does not adhere where it is not supposed to.

Sometimes you need to strengthen your repair by combining the repair compound or coating with a bandage (Wencon Reinforcement Tape) or with a wear resistant granulate (Wencon Aggregate).

Finally having the right tools for mixing and applying (Wencon Application Tools) will also contribute to a quick and successful repair application.



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### Product numbers:

Product numbers:		IMPA no.	ISSA no.
No. 1100	Wencon Cleaner, 0,5 litre unit	812349	75.553.01
No. 1110	Wencon Release Agent, 30 g unit (0,07 lb)	812350	75.553.60
No. 1120	Wencon Reinforcement Tape, 0,05 x 10 m (400 inch)	812339	75.553.50
No. 1140	Wencon Aggregate No. 16, 1,5 kg unit (3,3 lb)	N/A	N/A
No. 1150	Wencon Aggregate No. 24, 1,5 kg unit (3,3 lb)	N/A	N/A
No. 2805	Wencon Application Tools	N/A	75.553.80

## Wencon Blasters

The powerful, portable and efficient shot blasting equipment for small and medium size jobs.

- Low air consumption
- Performs SA3
- Excellent blasting accuracy
- Low maintenance
- Compliant with safety standards

Wencon Blasters 88 S and 248 S are compact, very efficient and portable shot blasting units for small and medium size jobs on metal, wood or concrete. You can choose among a wide range of blasting materials including, sand, calcium, glass and Garnet blasting media.

The construction of aluminium gives the Wencon Blasters many advantages, it's lightweight, rust free and has added corrosion resistance thus minimising the maintenance costs.

The Wencon Blasters are easy and safe to use. Safety features include remote controls that deprive the equipment of air pressure immediately when the trigger is released. The safety valve, also protects against any pressure surges, over the required working pressure.

Wencon Blasters are equipped with 3,0 mm respectively 4,5 mm cylindrical nozzles as standard and can therefore remove paint and clean very narrow strips avoiding damage to the surrounding areas. Moreover, the blasters can also be equipped with larger nozzles and Venturi nozzles which are available as optional equipment. These nozzles help to increase blasting speed and enables production on wider surfaces.



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### Product numbers:

No. 2814	Wencon Blaster 88 S
No. 2819	Wencon Blaster 248 S
No. 2812	Mouth piece for vacuum cleaner
No. 2811	"Back Pack Sling" for 88

### WENCON BLASTER 88 S

- Air pressure: 2 – 8 bar
- Air requirement: see table below
- Hose dimension: 3/8"
- Hose length: 3 m as standard
- Tank capacity: 9 litres
- Nozzle: 3,0 mm as standard
- Weight, empty: 12 kg

**Cylindrical nozzles:** 2,5–3,5–4,0–4,5 mm

**Venturi nozzles:** 2,5–4,0 mm

### WENCON BLASTER 248 S

- Air pressure: 2 – 8 bar
- Air requirement: see table below
- Hose dimension: 1/2"
- Hose length: 6 m as standard
- Tank capacity: 25 litres
- Nozzle: 4,5 mm as standard
- Weight, empty: 26 kg

**Cylindrical nozzles:** 2,5–3,0–3,5–4,0–6,0– 6,5 mm

**Venturi nozzles:** 2,5–4,0–6,0 mm

## AIR CONSUMPTION

Air consumption depending on nozzle size: l/min at 20° C

Pressure (bar)		4	5	6	7	8
Nozzle (mm)	2,5	255	281	305	327	348
	3,0	368	406	440	472	502
	3,5	502	553	600	644	684
	4,0	657	725	786	843	896
	4,5	835	920	998	1070	1137
	5,0	1036	1141	1237	1326	1409
	5,5	1262	1390	1506	1614	1714

Calculated in accordance to ISO 5167

The air consumption figures above are based on maximum theoretic airflow possible.

To achieve these numbers you will have to use an air compressor that is capable of releasing these values plus an extra 15-20% which is often lost from the compressor to the blaster nozzle.

A minimum size air supply hose of 1/2", preferably 3/4" is recommended.

## BLASTING MEDIA

The maximum recommendable grain size for Wencon Blasters is 1,2 mm.

*Depending on nozzle size we can recommend the following grain sizes:*

Nozzle	Grain size
Cylindrical nozzle 3,0 mm	0,25 – 0,60 mm
Cylindrical nozzle 4,5 mm	0,25 – 1,00 mm
Venturi nozzle 2,5 mm	0,25 – 0,60 mm
Venturi nozzle 4,0 mm	0,25 – 1,00 mm