

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 metal surfaces
- Simple mixing and application
- Convenient unit sizes



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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



General description

Fast curing two component solvent free paste consistency epoxy repair compound.

Surface preparation

The surface must always be clean and degreased

Applying to new steel surface:

- shot blasting to SA 2,5
- if shot blasting is not possible use grinding
- after grinding the surface must be degreased with Wencon Cleaner

Repairing old steel surface:

- shot blasting to SA 2,5
- sweat out water and salts
- shot blasting to SA 2,5 again
- profile 75 microns

Mixing Ratio

Mix by volume 1:1. Mix until an even colour is obtained.

Applying

Wencon Rapid can be applied by spatula.

Pot Life

Depending on amount mixed and temperature. Mixed in small amounts, the pot life is approximately 10-20 minutes at 20°C. (68°F)

Curing time

Curing will take place in 40-90 minutes at 20°C. (68°F)

Reduced curing time with infrared

This product is tested with and suitable for infrared curing. Curing with infrared radiation can reduce curing time significantly. Result can vary, depending on circumstances and equipment used.

Machine-ability

After curing the product can be machined just like metal

Technical Data

Hardness Shore D: 81 (DIN 53505)

Tensile strength: 9,2 N/mm² - 1310 p.s.i. (DIN 53454)

Compressive strength:

Modulus of elasticity: 2891 N/mm² - 411,000 p.s.i. (DIN 53454)

R_{crack}: 112 N/mm² - 16,000 p.s.i. (DIN 53454)

Adhesion to steel: 20 N/mm²

Specific volume

709 ccm per kilogramme (45,3 cu inch/kg)

Temperature Resistance

Corrosion: 60°C (140°F)

Light load: 120°C (248°F)

As filler: 250°C (482°F)

Chemical Resistance

The compound is resistant to oil, water, salt-water and most diluted acids and alkalis as well as a range of solvents.

Shelf life

@ 20°C (68°F) : 3 years

Handling Precautions

Read the instructions for use and the Material Safety Data Sheet.