

Technical Instruction Sheet

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Properties:

AKEMI® Rust Converter contains a totally new combination of active substances which, in contrast to all other commercially-available rust converters, does not work on the basis of acids (pH value: 7.0). The anti-rust agents extract the oxygen contained in the rust and neutralise it. What remains is an adherent and stable ferro-organic protective layer. At the same time, the neutralised rust on the surface is isolated from the influence of the weather by a hardening plastic coating. The product is characterized by the following properties:

- totally free of mineral and organic acids (pH value 7.0)
- can be used without taking any particular protective measures
- environment-friendly: free of lead, cadmium, zinc chromate and other heavy metals
- corrosion protection with two effects:
 - 1) Rust Converter neutralises the rust
 - 2) Rust Converter isolates the neutralised rust from the influence of the weather in the future
- non-flammable
- no harmful vapours when working with it
- after it has dried, it cannot be washed off
- effective even on wet rust
- no problem to weld through
- is not aggressive towards coats of paint or zinc
- fast and easy to use
- economical due to the high concentration of active ingredients.
- not recommended to be coated with paint; please consult the manufacturer

Application areas:

AKEMI® Rust Converter is a protective coating for all iron and steel parts in all kinds of vehicles, machines and tools as well as in the structural and civil engineering sectors.

Instructions for use:

1. Scrape off loose rust and paint or remove it with a wire brush. The surface must be clean and free of oil and grease.
2. Shake it well before use. If required, it can be diluted up to 10% with clean water.
3. Recommended working temperature: 15 - 25° C.
4. Apply AKEMI® Rust Converter evenly with the brush or roller. Alternatively, it can also be sprayed on.
5. The layer has a milky appearance first, but turns black after drying.
6. In order to achieve the best possible protection, it is recommended to apply a second coat after approximately 1 - 2 hours.
7. Dust no longer clings to the applied layer after approximately 1 - 2 hours (at 20° C). It is thoroughly dry after approx. 24 hours (at 20° C). After it has fully dried, AKEMI® Rust Converter can be baked at temperatures up to 120° C.
8. Low temperatures, high air humidity or thick layers can delay thorough drying up to several days.
9. Rust Converter can be removed with water before it dries.

Special notices:

- Polyester fillers cannot be applied to layers of Rust Converter - even if they are dry (adhesion problems).
- Drying problems and discolouration can occur with some lacquers.

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Technical specifications:	density:	approx. 1.0 g/cm ³
	pH value:	7.0 (= neutral)
	odour:	mild, pleasant
	appearance:	milky, black when dry
	dust no longer clings to it after:	1 - 2 hours
	dilution:	max. 10% with water
	working temperature:	3° C - 40° C (optimum temp. 15° C - 25° C)
	chemical resistance:	good resistance against weak acids and alkalis. Not resistant against solvents and aggressive oils
	long-term heat resistance:	125° C
	short-term heat resistance:	175° C
	salt spray test in accordance with DIN 50021:	500 hours
	shelf life:	can be stored for at least 1 year in the closed original container under frost-free conditions.

Safety notices: Please refer to the EC safety data sheet.

Notice: The above information is based on the latest stage of our development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trials of the product, in an inconspicuous area or fabrication of a sample piece.

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