SCHWEGO® inhibitor 6817

Corrosion protection additive | passivation of residual rust on steel

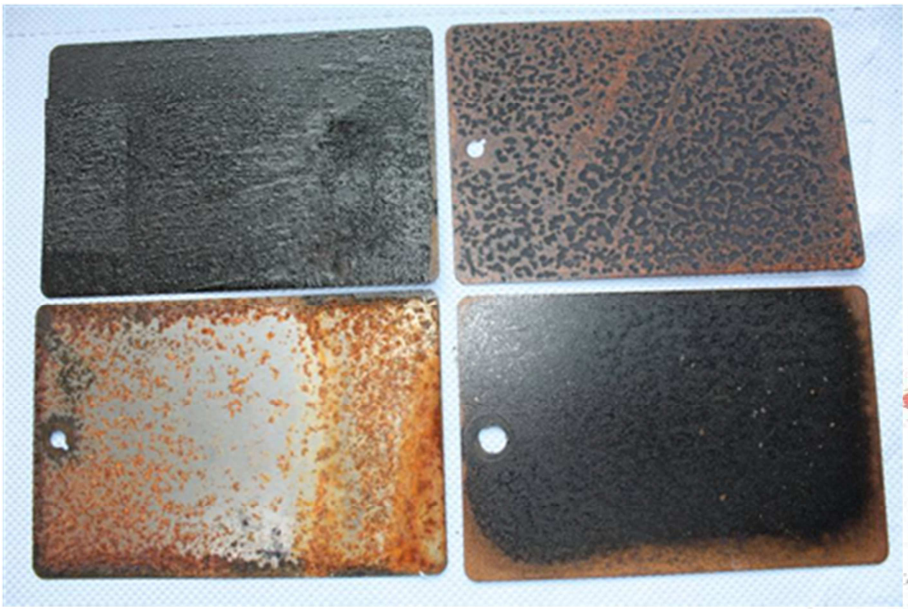
Chemical base Mixture of organic substances

Properties **SCHWEGO® inhibitor 6817** is used to compensate poor preparation of the substrate and unsatisfactory painting conditions:

- Manual derusting (residues of rust)
- Unfavourable weather conditions, e.g. damp surface
- Careless preparation of the substrate, e.g. traces of grease
- Difficulties caused by type of construction or location, e.g. rest rust

SCHWEGO® inhibitor 6817 converts residual rust into a stable and non-corroding iron organic complex and provides long term protection against corrosion. **SCHWEGO® inhibitor 6817** ensures good penetration into the residual rust, thus adhesion is promoted. If **SCHWEGO® inhibitor 6817** is used as a pre-treatment for corroded steel surface reaction time is about 3 hours. It's not necessary to wash the surface with water after reaction.

The effectivity of **SCHWEGO® inhibitor 6817** is observable by a blue to black discolouration of the substrate (see picture). After appearance of this discolouration the new coating layer can be applied.



Right above: untreated rusted steel plate; left above with SCHWEGO inhibitor 6817 treated steel plate after reaction; below: opposite

Applications **SCHWEGO® inhibitor 6817** is primarily used undiluted as a pretreatment product against residual rust on iron and steel surfaces. **SCHWEGO® inhibitor 6817** is not a

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SCHWEGmann
Chemistry that fits

coating and therefore the treated surface must be protected by a suitable coating system. Painting should be carried out preferably within 48 hours after application of **SCHWEGO® inhibitor 6817**. Types of paints and the number of coatings needed will be determined by the aggressiveness of the environment. **SCHWEGO® inhibitor 6817** is perfect for the restoration of all kinds of steel parts, for instance in the industrial sector, but also for machineries, vehicles and chemical-technical plant components. **SCHWEGO® inhibitor 6817** shows a very good solvent stability and is recoatable with most current coating systems.

SCHWEGO® inhibitor 6817 is also used as a rust converting additive for water based coating systems. Typical applications are anticorrosive primers, one-coat anticorrosive systems and maintenance finishes.

Technical data (Guide values)

Appearance	turbid, light yellow liquid
Density (ISO 2811-1)	0.89 g/cm^3
Flash point (ISO 1523)	21 °C
Non volatile content (ISO 3251)	7%

Processing

SCHWEGO® inhibitor 6817 is used undiluted as a pre-treatment product. The surface has to be prepared. Loose rust, fat, dirt as well as with rust infiltrated coating residues are to be removed by means of steel brush, grinding wheels, etc. On the residual rust **SCHWEGO® inhibitor 6817** can be applied by the typical method like paint brush, roller and so on.

If **SCHWEGO® inhibitor 6817** is used in a coating the optimum dosage of it is between 3.0 – 5,0%, calculated on system. The best incorporation of **SCHWEGO® inhibitor 6817** is after the pH- value adjustment of the paint. **SCHWEGO® inhibitor 6817** has an influence onto the pH- value.

SCHWEGO® inhibitor 6817 should be applied correctly onto the pretreated surface. In contact with remaining coating surfaces discolourations may occur. Hence, **SCHWEGO® inhibitor 6817** should be washed away with water or suitable solvents.

When using **SCHWEGO® inhibitor 6817** in a coating, yellow discolorations may occur and also drying time may increase and therefore siccatives should be adjusted. The use of **SCHWEGO® inhibitor 6817** in pastel coloured paints should be tested beforehand.

To recoat a water based coat containing **SCHWEGO® inhibitor 6817** with solvent based coatings should be tested by laboratory trials.

To test the activity of **SCHWEGO® inhibitor 6817** it is necessary to use pre-rusted test panels and to carry out accelerated weathering. The salt spray test does not correlate with outdoor weathering and should not be used.

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The spreading rate of purely applied **SCHWEGO® inhibitor 6817** is about 5 - 10 m^2. The spreading rate mostly depends on application method and the condition of the substrate.

Storage

Do not store **SCHWEGO® inhibitor 6817** at temperatures below 0 °C. Stir it up before use. Keep it in a cool, well-ventilated place. Subject to appropriate storage, the described properties of **SCHWEGO® inhibitor 6817** remain stable for at least 18 months, provided the original container is closed after use.

Packaging

50 kg drum | 175 kg drum

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