

# SurTec® 590

## Water-Miscible Corrosion Protection

### Properties

- liquid
- long-term corrosion protection
- suitable for immersion and flood applications
- suitable for iron materials
- free of nitrite
- contains mineral oil
- free of solvents

### Application

Depending on the concentration (5-20 %vol) a corrosion protection of 2-12 months (under normal conditions) can be reached.

In humidity test according to DIN 50017-KFW, a 10 % formulation prevents any corrosion for 27 cycles (1 cycle = 24 h).

SurTec 590 has to be emulsified in water in the chosen concentration, mixing well. The hardness of water should not exceed 30 °dH. The product does not contain solvents, so inflammable or explosive solvent/air mixtures will not occur.

For the formulation it is important to submit water first and then add SurTec 590. The water can already be warm. Then heat to operation temperature.

After treatment with SurTec 590 the parts have to be dried.

concentration:	5-20 %vol
temperature:	RT-90 °C
application time:	1-5 min
pH-value:	must not be below pH 7.5

### Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (at 50 g/l)
SurTec 590	liquid/oily, brown	0.930 (0.91-0.95)	8.6-9.2

### Maintenance and Analysis

The concentration of SurTec 590 can be measured via refractometer.

calculation:  $\text{Brix} / 0.92 = \% \text{vol SurTec 590}$

## Ingredients

- mineral oil solvent refinings
- highly molecular waxes
- paraffin sulfonates
- anionic surfactants
- biocides

## Product Safety and Ecology

The safety instructions and the instructions for environmental protection have to be followed in order to avoid hazards for people and environment. The Material Safety Data Sheets (according to European legislation) contain explicit details for this.

The following hazard designations and classifications into water hazard classes (WHC) have to be taken into account:

<u>product</u>	<u>hazard designation</u>	<u>water hazard class</u>
SurTec 590	Xi - Irritant	WHC 2

## Warranty

We are responsible for our products in the context of the valid legal regulations. The warranty exclusively accesses for the delivered state of a product. Warranties and claims for damages after the subsequent treatment of our products do not exist. For details please consider our [general terms and conditions](#).

## Further Information and Contact

In our forum, you can discuss topics of the surface technology:  
<http://forum.SurTec.com/>

If you have any questions concerning the process, please contact your local technical department: <http://SurTec.com/International.html>

24 February 2010/DK, OP