

SurTec® 556 RT Sealer with Glide Wax

Properties

- forms a uniform, colourless and bright film after drying
- the coating is not sticky and is dry to the touch
- reduces the coefficient of friction to 0.13
- improves the corrosion protection and the heat resistance
- gives an uniform appearance and covers the iridescence of the passivation layers
- IMDS-number: 974826

Application

SurTec 556 RT is applied as a post treatment after plating and passivating.

make-up value:	25 %vol	(20-50 %vol)
make-up:	Steps for make-up:	
	1. Fill SurTec 556 RT into the tank.	
	2. Add deionised water while stirring vigorously.	
temperature:	room temperature (15-35 °C)	
pH-value:	8.1-9.0 adjust with diluted ammonia solution (5-10 %) or with SurTec 520 A or with diluted nitric acid (1 %), if necessary	
application time:	20 s - the parts have to be wetted completely	
tank material:	plastic tanks or steel with coating	
filtration:	coarse filtration may be useful, if some acid is dragged in (precipitations)	
heating/cooling:	not necessary	
hints:	Protect SurTec 556 RT from freezing. After treatment the parts should be dried immediately at 60–95 °C. SurTec 556 RT flocculates in acidic solutions. Therefore the pH- value of the make up water must be higher than pH 7. Furthermore, care must be taken that SurTec 556 RT and its solutions are not mixed with acidic solutions, for instance in waste water tubes, to prevent undesired flocculation which cannot be dissolved any more.	

Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (conc.)
SurTec 556 RT	liquid, yellowish-brownish, milky	1.042 (1.03-1.07)	9.1 (8.5-9.5)

Maintenance and Analysis

Replenish missing volume with fresh solution, corresponding to the first make-up.

Sample Preparation

Take a sample at a homogeneously mixed position. If the sample is turbid, let the turbidity settle down and decant or filter the solution.

SurTec 556 RT – Analysis by Analysis by ISO 3251

equipment: clean bowl, analysis balance

procedure:

1. Weigh out a clean empty bowl.
2. Pipette 25 ml sample into.
3. Dry the sample at 120 °C for 2 h.
4. Let it cool down to room temperature and weigh the bowl again.

calculation: $\text{weight difference in g} \cdot 19.05 = \% \text{vol SurTec 556 RT}$

Ingredients

- polyethylene
- silicon compounds

Consumption and Stock Keeping

The consumption depends heavily on the drag-out. To determine the exact amounts of drag-out, see [SurTec Technical Letter 11](#).

In order to prevent delays in the production process, per 1,000 l bath, the following amount should be kept in stock:

SurTec 556 RT 400 kg

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 556 RT	-	WHC 1

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>