

# SurTec® 556 GL

## Silicate Sealer with Glide Wax

### Properties

- forms an uniform, colourless and bright film
- the coating is not sticky and is dry to the touch
- reduces the coefficient of friction
- improves the corrosion protection by approx. 100 h in neutral salt spray, additionally to the passivation
- improves the heat resistance
- gives an uniform appearance and covers the iridescence of the passivation layers
- very easy to remove the topcoat in highly alkaline cleaners (for cleaning the racks and re-work parts)
- IMDS-number: 975042

### Application

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

make-up values:     *centrifuge*                     *immersion*  
SurTec 556 GL   20-40 %vol                     12.5-25 %vol

make-up:                     Steps for make-up:

1. Fill SurTec 556 GL into the tank.
2. Add deionised water while stirring vigorously.

temperature:             room temperature             (10-40 °C)

pH-value:                 8.5-10.5  
if necessary, adjust with diluted NaOH or SurTec 520 A

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:                     After treatment with SurTec 556 GL the parts should be dried immediately at 60-100 °C.

SurTec 556 GL 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 GL and its solutions are not mixed with acidic solutions, for instance in wastewater tubes, to prevent undesired flocculation.

storage:                 Protect SurTec 556 GL from freezing (storage not under 0 °C).

### Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (conc.)
SurTec 556 GL	liquid, yellow-grey, turbid	1.056 (1.03-1.07)	10.1 (9-11)

## Maintenance and Analysis

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

Analyse and adjust the pH-value and the concentration of SurTec 556 GL regularly.

### Sample Preparation

Take the sample at a homogeneously mixed position and let it cool down to room temperature. Remove bigger particles.

### SurTec 556 GL – Analysis by ISO 3251

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

calculation:                    weight difference in g · 18.5 = %vol SurTec 556 GL

## Ingredients

- waxes of polyethylene
- silicon compounds

## Stock Keeping

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

SurTec 556 GL                    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:

<i><u>product</u></i>	<i><u>hazard designation</u></i>	<i><u>water hazard class</u></i>
SurTec 556 GL	-	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>