

SurTec® 140

Mild Alkaline Recyclable Builder

Properties

- mild alkaline liquid
- free of silicates and surfactants
- in combination with SurTec 089 recyclable via cross-flow-filtration or separator
- emulsifying in combination with SurTec 415
- in combination with SurTec 084 or SurTec 086 applicable as spray cleaner
- suitable for steel, aluminium, brass etc.

Application

In combination with surfactant boosters, SurTec 140 is suitable for soak-, ultrasonic- and spray processes. Oil, grease and pigments are removable without problems.

make-up values: 3-7 %vol SurTec 140
(+ 0.1-1 %vol surfactant)

temperature: 40-90°C

application time: 0.5-10 min

Technical Specification

(at 20°C)	Appearance	Density (g/ml)	pH-value (at 20 g/l)
SurTec 140	liquid, colourless, clear	1.302 (1.28-1.32)	9.0 (8.7-9.7)

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 140 regularly.

Sample Preparation

Take a sample at a homogeneously mixed position. Let it cool down to room temperature. If the sample is turbid, let the turbidity settle down and decant or filter the solution.

SurTec 140 – Analysis by Titration

reagents: 0.1 N hydrochloric or sulfuric acid
indicator: methyl orange solution (0.04 %)

procedure: 1. Pipette 10 ml bath sample into a 250 ml Erlenmeyer flask.
2. Dilute to approx. 100 ml with deionised water.
3. Add 3 drops of indicator.
4. Titrate with 0.1 N acid from yellow orange to red.

calculation: consumption in ml · 0.381 = %vol SurTec 140

Ingredients

- phosphates
- potassium tetraborate

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 140 Builder 100 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 140	Xi - Irritant	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>