

SurTec® 141

Alkaline Builder

Properties

- alkaline liquid builder
- free of surfactants
- suitable for steel, conditionally also for zinc and aluminium
- in combination with e.g. SurTec 089 (surfactant for soak- and ultrasonic application) recyclable via separator or oil separator
- in combination with e.g. SurTec 092 (surfactant for soak- and ultrasonic application) emulsifying
- in combination with e.g. SurTec 086 (surfactant for spray application) sprayable

Application

In combination with surfactant boosters, SurTec 141 is suitable for soak-, ultrasonic- and spray processes. Oil, grease and pigments are removable without problems.

make-up values: 0.5-3 %vol SurTec 141
(+ 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 10 g/l)
SurTec 141	liquid, colourless - light yellow, clear	1.409 (1.37-1.43)	approx. 12.5

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 141 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 141 – 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 · 0.14 = %vol SurTec 141

Ingredients

- phosphates
- sodium tetraborate
- silicates

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 141 30 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 141	C - Corrosive	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>

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