

Product Information Auxiliaries

Sera[®] Con M-TC

(ROTTACID 97651)

Universal auxiliary for pretreatment and dyeing

Function	Complexing and neutralising additive for use after bleaching and mercerising, acid buffer for the application of acid and metal-complex dyes
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Properties	<ul style="list-style-type: none"> - complexing and dispersing properties with threshold effect in pretreatment and washing processes - acid buffer to set pH at 3 - 5 - suitable for continuous dyeing of polyamide, especially carpet fabrics - does not contain surfactants or phosphates - not volatile - easy to use
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Chemical Characteristics	Aqueous formulation of organic acids
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Technical Data	<table> <tr> <td>Appearance:</td> <td>clear, colourless liquid</td> </tr> <tr> <td>pH:</td> <td>2.5 - 3.5 (20.0 g/l)</td> </tr> <tr> <td>Density:</td> <td>approx. 1.2 g/cm³</td> </tr> <tr> <td>Ionicity:</td> <td>anionic</td> </tr> <tr> <td>Dilution procedure:</td> <td>readily soluble in cold and warm water</td> </tr> <tr> <td>Shelf life:</td> <td>1 year in original closed containers. Do not expose to frost.</td> </tr> </table>	Appearance:	clear, colourless liquid	pH:	2.5 - 3.5 (20.0 g/l)	Density:	approx. 1.2 g/cm ³	Ionicity:	anionic	Dilution procedure:	readily soluble in cold and warm water	Shelf life:	1 year in original closed containers. Do not expose to frost.
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Application

Sera Con M-TC is a universal auxiliary for pretreatment and dyeing.

In **pretreatment** it optimises continuous washing processes, especially after bleaching or mercerising. It neutralises the core of cellulosic fibres and removes all impurities.

Amounts required

e.g. extraction (neutralisation after bleaching)

	Cold pad-batch bleaching*	Pad-steam bleaching*	Discontinuous bleaching*
Temperature (°C)	80 - 90	80 - 90	80 - 90
Time (minutes)	0.5 - 1	0.5 - 1	10 - 15
Sera Con M-TC ml/l	1.0 - 2.0	1.0 - 2.0	0.5 - 1.0

* after the process, in a continuous washing process

In **dyeing** processes, Sera Con M-TC gives a more reproducible dyebath pH than the commonly used volatile organic acids.

Since it has buffering capacity, the pH in the dyebath remains stable. In pad-steam dyeing, for example for continuous dyeing of polyamide carpet fabrics, the volatility of organic acids is unacceptable. Sera Con M-TC is an acceptable alternative. Here too, Sera Con M-TC stabilises the pH. This improves the reproducibility of dyeing processes and significantly reduces tailing in continuous dyeing.

Sera Con M-TC is also suitable for the application of acid and metal-complex dyes, which are normally used to dye polyamide. The pH can be set at 2.5 - 5.5 by adding acid or alkali without reducing the general buffering capacity of the product.

Sera Con M-TC can therefore be used for discontinuous and continuous dyeing of polyamide and wool at pH 2.5 - 5.5.

Amounts required

Depending on the dye class, material and liquor ratio:

1.0 - 5.0 g/l Sera Con M-TC.

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