

## REAKNITT TW

### Characterization

Crosslinking agent with integrated catalyst system for the low formaldehyde easy-care finish of cellulose fibres and their blends with synthetics

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### Chemical Structure

Modified dimethylene dihydroxyethylene urea

### Supplied Form

Clear, yellowish liquid

### pH Value of a 10% Solution

2.2 – 4.8

### Ionic character

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### Specific Weight at 20 °C

Approx. 1.16

### Stability

REAKNITT TW is compatible with most finishing agents.

If several products are blended, we recommend to carry out compatibility pretrials.

Since REAKNITT TW already contains the catalyst, we recommend to store the product in plastic or fibre glass tanks.

The product is highly sensitive to frost. After temperatures around the freezing point irreversible changes occur.

### Storability

REAKNITT TW can be stored for at least 12 months in closed original containers between 5 and 30°C. Opened containers ought to be used up quickly and closed tightly after every use.

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## Properties

REAKNITT TW is a cellulose crosslinking agent with an integrated catalyst system.

- normally an additional catalyst is not required
- good wash and wear effects
- good stability to hydrolysis
- no hardening of fabric handle
- good fastness of finishing effects to washing and dry cleaning
- if applied properly, even without an afterwashing process the finish generally meets Öko-Tex Standard 100 for free formaldehyde. In any case, the finished fabric must be subject to a test according to Öko-Tex Standard 100.

## Application Technique

### Diluting Instructions

REAKNITT TW can be diluted with cold water at any ratio.

### Application Fields

Easy care finish of wovens and knits made of cellulose fibres (cotton, viscose, Lyocell, etc.) and their blends with synthetics.

The product is suitable for the embossed, rippling and chintz finish.

### Recommendation for Use

For optimum easy care properties and low formaldehyde values it is highly important that the fabric has been neutralized well and that the condensation conditions are sufficient.

The pH value of the ready-for-use finishing liquor ought to be 4.0 – 5.5.

We basically recommend to add 0.5 – 1.0 g/l KOLLASOL HV and 0.5 – 1.0 g/l acetic acid 60 % for padding recipes.

For white and pastel shades we recommend pretrials because of a possible impact on the degree of whiteness or the shade.

### Application Amounts

CO:	30 – 70 g/l REAKNITT TW
CV:	60 – 130 g/l REAKNITT TW
PES / CO:	30 – 70 g/l REAKNITT TW
PES / CV:	40 – 80 g/l REAKNITT TW

### Recipe Proposals

#### Approximate Recipes

Shirt fabric (100 % cotton)

40.0 - 70.0	g/l	REAKNITT TW
10.0 - 20.0	g/l	POLYAVIN PEN
10.0 - 30.0	g/l	ARRISTAN 64
0.5 - 1.0	g/l	KOLLASOL HV
0.5 - 1.0	g/l	acetic acid 60 %

Liquor pick-up:	Approx. 70 %
Drying:	As usual
Curing:	3 min at 150 °C

Blouse fabric (100 % CV)

70.0 - 110.0	g/l	REAKNITT TW
10.0 - 20.0	g/l	POLYAVIN PEN
10.0 - 30.0	g/l	TUBINGAL HWT
0.5 - 1.0	g/l	KOLLASOL HV
0.5 - 1.0	g/l	acetic acid 60 %
Liquor pick-up:		Approx. 80 %
Drying:		As usual
Curing:		1 min at 170 - 175°C

Knitwear (100 % CO)

30.0 - 50.0	g/l	REAKNITT TW
15.0 - 30.0	g/l	POLYAVIN PEN
15.0 - 30.0	g/l	TUBINGAL WES
0.5 - 1.0	g/l	KOLLASOL HV
0.5 - 1.0	g/l	acetic acid 60 %
Liquor pick-up:		Approx. 70 %
Drying:		As usual
Curing:		30 sec at 170 °C

When working with embossing, rippling and chintz finishes, the fabric should be dried to a residual moisture of approx. 6 - 10 % after impregnation and afterwards be either embossed or calendered. The resin is cured afterwards.

**We reserve the right to modify the product and technical leaflet.**

**Our department for applied technique is always at your service for further information and advice.**

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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