
COTOBLANC® SEL

Character	Concentrated, surfactant-free special product for aftersoaping reactive dyeings and reactive prints in liquors containing electrolytes and dyes
Chemical Character	Mixture of sequestering agents and polymers with affinity to dyes
Appearance	Yellowish, clear liquid
Ionic Character	Slightly anionic
pH Value	6.2 – 6.8
Specific Weight at 20 °C	1.04 ± 0.03
Stabilities	COTOBLANC® SEL is well stable to alkalis and hardening agents in the usual industrial concentrations. The product is not sensitive to frost.
Storage	On proper storage in closed original containers, the product is stable for at least 12 months.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Properties

COTOBLANC® SEL is based on a totally new chemistry for aftersoaping reactive dyeings. The product forms a strong complex with non-bound hydrolyzed reactive dye which is stronger than the substantivity of hydrolyzate in liquors containing salt. For this reason, COTOBLANC® SEL works well in liquors containing a lot of salt and dyes. Rinsing baths, time and energy can be saved in this way.

The pH value is an important criterion for soaping with COTOBLANC® SEL. Based on its chemical composition, COTOBLANC® SEL has a slightly anionic effect in neutral to alkaline liquors. The product is most efficient in this pH range.

As of a pH value of 6 and below COTOBLANC® SEL becomes slightly cationic, which can lead to precipitations with anionic substances and to poor fastnesses. It is thus important to soap in a neutral or alkaline range (pH 7.0 - 9.0).

Aftersoaping is normally done at 95 – 98 °C. Very good results are achieved at 80 °C with fibre blends such as PES/CO.

COTOBLANC® SEL has the capacity of binding calcium besides its good afterwashing effect, so that good results are also achieved with hard water.

® = registered trade mark

COTOBLANC® SEL can be applied on continuous plants, yarn dyeing machines, jets or alike.

For afterwashing reactive yarn dyed fabric, e.g. striped fabrics, the bleeding on light colours or white is largely avoided.

Furthermore, COTOBLANC® SEL is very well suitable for afterwashing reactive prints. It prevents the bleeding of white grounds as well as white or coloured discharge effects in print afterwashing.

COTOBLANC® SEL is free from surfactants and therefore absolutely non-foaming. It has no surface tension and is thus not subject to the European detergent regulation.

Application Technique

Diluting Instructions

COTOBLANC® SEL can be mixed with cold water at any ratio.

Recommendation for Use

On reactive dyeings it is important to remove non-fixed dyestuff from the fibre for achieving the best fastnesses. Owing to the efficiency of COTOBLANC® SEL, rinsing and soaping baths can be saved because salt and dye remainders hardly disturb the soaping process.

On dark dyeings the number of rinsing baths can be drastically reduced. Normally, one rinsing bath is enough. Neutralisation, pH adjustment and soaping can be done in the next bath.

On light dyeings the dyeing bath is drained and neutralisation, pH adjustment and soaping are done in the next bath. The pH value (7.0 - 9.0) has always to be between the neutral and alkaline range. The alkaline pH value can be adjusted with soda ash according to the proposals given by the dyestuff producers.

For achieving highest fastnesses we propose to carry out a cationic aftertreatment after soaping, particularly on dark shades, with one of our REWIN products (please check the corresponding leaflets).

Application Quantities and Soaping Temperatures

The necessary application quantity of COTOBLANC® SEL depends on the corresponding dye hydrolysate quantity; that means for a dyeing with half the dye quantity half of the application quantity of COTOBLANC® SEL is needed. For this reason COTOBLANC® SEL is particularly economic for dyeing light colours. There is no need of rinsing baths before the actual soaping process.

Continuous treatment

0.5 - 2.0 g/l COTOBLANC® SEL

Temperature: 95 – 98 °C

Mechanics and high liquor throughput promote the washing out effect.

Piece dyeing machines

0.3 - 2.0 g/l COTOBLANC® SEL

The treatment should be carried out at boiling temperature. The soaping takes 15 - 20 min.

The following application recommendations are only standard proposals. Because of the huge number of applied reactive dyes, different aggregates, various basic materials, different liquor ratios, etc. in practice only general recommendations can be given. The best possible process order of rinsing and soaping baths has to be adjusted to the conditions.

		COTOBLANC® SEL	Time (min.)	Temperature (°C)	pH-value liquor
Light dyeings < 2 % dye	Neutralise + soap	0.3 – 0.6 g/l	15 - 20	95 - 98	7 - 9
	Rinse		10	60	
	Rinse		10	cold	
Medium dyeings 2 - 4 % dye	Rinse		10	60	
	Neutralise + soap	0.6 – 1.5 g/l	15 - 20	95 - 98	7 - 9
	Rinse		10	60	
	Rinse		10	cold	
Deep dyeing > 4 % dye	Rinse		10	60	
	Neutralise + soap	1.5 – 2.0 g/l	15 - 20	95 - 98	7 - 9
	Rinse		10	60	
	Rinse		10	60	
	Rinse		10	cold	

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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