COTOBLANC PCS

Character	Surfactant-free special product for removing reactive dyestuff hydrolyzate from reactive dyeings and prints in liquors containing electrolytes
Chemical Character	Mixture of sequestrants and polymers with dyestuff affinity
Appearance	Colourless - slightly yellowish, clear liquid
Ionic Character	Slightly anionic
pH Value	6.2 – 6.8
Specific Weight at 20 °C	1.02
Stabilities	COTOBLANC PCS is well stable to the usual concentrations of alkalis and hardeners. 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 PCS serves for removing unfixed reactive dyestuff from reactive dyeings and prints. COTOBLANC PCS is also effective in liquors containing salt.

As a liquid product, COTOBLANC PCS is mainly suitable for aftertreatment processes on continuous machines, yarn and piece dyeing machines. COTOBLANC PCS is easy to handle since it does not foam at all, is well miscible with cold water and can be dosed without problems.

The product does not contain any surfactants and is thus absolutely non-foaming. It has no surface tension and is not subject to the European detergent regulation.

Application Technique

Diluting Instructions

COTOBLANC PCS is miscible with cold water at any ratio.

Application Recommendation

With reactive dyeings it is very important to remove the dyestuff hydrolyzates which are not chemically bound to the cellulose fibre.

One particular feature of COTOBLANC PCS is its efficiency even in the presence of electrolyte. With light-coloured dyeings (< 1.5 % dyestuff) an intermediate rinsing before the actual soaping process may be omitted by using 1.0 – 2.0 g/l COTOBLANC PCS.

For soaping deeper dyeings without intermediate rinsing we recommend using COTOBLANC SEL or COTOBLANC SEL 200.

In the case of vinyl sulphone dyestuffs it is advisable to neutralize in the first rinsing bath with acetic acid. The pH value during the subsequent treatment at the boil for removing the unfixed reactive dyestuff shares should be between 7.0 and 9.0. PH values below 7.0 cause the dyestuff hydrolyzate removal effect to decrease and pH values above 9.0 can cause a separation of the dyestuff/ fibre bonding.

As of a pH value of 6.0 and below COTOBLANC PCS turns slightly cationic, which may lead to precipitations with anionic substances and bad fastnesses. Therefore, it is necessary to soap in neutral or alkaline ranges (pH 7.0 – 9.0).

To obtain optimal fastnesses with dark shades we recommend carrying out a cationic aftertreatment with one of the REWIN products (check the corresponding technical leaflets).

Moreover, COTOBLANC PCS is excellently suited to be used in the aftertreatment of reactive prints because it prevents the bleeding of white grounds and white or coloured discharge effects in the print aftertreatment.

COTOBLANC PCS prevents the dyestuff hydrolyzate from picking up again.

Application Amounts and Soaping Temperatures

The required application amount of COTOBLANC PCS depends on the dyestuff hydrolyzate to be removed, i.e. if half the dyestuff quantity is used for a dyeing, half the quantity of COTOBLANC PCS will be required. Thus, COTOBLANC PCS is particularly economical with light-coloured dyeings because rinsing baths before the actual soaping process may be omitted here.

Continuous aftertreatment:

Reactive dyeing

1.0 – 3.0 g/l COTOBLANC PCS

Print aftertreatment:

Printing with reactive dyestuffs

2.5 – 5.0 g/l COTOBLANC PCS

COTOBLANC PCS is applied with reactive dyeings and prints during the boiling phase (95 – 98°C). The efficiency of COTOBLANC PCS is supported by mechanical impact and a high liquor throughput.

Piece dyeing machines:

0.5 – 3.0 g/l COTOBLANC PCS

The treatment is possibly carried out at boiling temperature for 15 – 20 minutes.

The subsequent application recommendations are only basic recommendations. Due to the variety of reactive dyestuffs in use, different machines, varying original fabrics, different liquor ratios, etc. we can only give general recommendations. The optimal process order of rinsing and soaping baths must be adapted to the corresponding situation.

		COTOBLANC PCS	Time (min)	Temperature (°C)	pH value of the liquor
Light-coloured dyeing < 2 % dyestuff	Neutralize + soap	0.5 – 1.0 g/l	10 – 20	95 – 98	7 - 9
	Rinse		10	60	
	Rinse		10	cold	

	Rinse		10	60	
Medium dyeing 2 – 4 % dyestuff	Rinse		10	60	
	Neutralize + soap	1.0 – 2.0 g/l	10 – 20	95 – 98	7 - 9
	Rinse		10	60	
	Rinse		10	cold	

	Rinse		10	60	
	Rinse		10	60	
Deep dyeing > 4 % dyestuff	Neutralize + soap	2.0 – 3.0 g/l	10 – 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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