
TUBASSIST FIX 535

Characterization

Low-formaldehyde auxiliary for increasing the fastness levels of pigment prints, aqueous screen printing pastes and flock adhesive dispersions.

Chemical Structure

Melamine resin derivative

Supplied Form

Clear, colourless liquid

pH Value

7.5 – 9.5

Ionic character

Non-ionic

Solubility

TUBASSIST FIX 535 is miscible with water at any ratio.

Stabilities

TUBASSIST FIX 535 is well compatible with all pigment printing pastes. In the acid pH range and at higher temperatures premature cross-linking occurs. The product is sensitive to frost. Irreversible changes may occur after the impact of temperatures far below the freezing point. TUBASSIST FIX 535 is sensitive to temperatures higher than 40 °C.

Storage

In a cool and dry place in well-closed original containers. We recommend not exceeding a storage time of 6 months. At temperatures below + 10 °C the viscosity of the product increases strongly. However, after heating it up to room temperature TUBASSIST FIX 535 can easily be pumped again. Opened containers must be closed again tightly.

Properties

TUBASSIST FIX 535 is a polyfunctional cross-linking agent with a low formaldehyde content both in the product and later on the fabric. TUBASSIST FIX 535 is applied wherever normal fixing agents cannot meet the demands made on the formaldehyde content. TUBASSIST FIX 535 distinctly improves the fastness levels of pigment prints and dyeings, particularly on textiles made of synthetic fibres or their blends with natural fibres.

Additions of TUBASSIST FIX 535 also improve the fastness level of hot-curing screen printing pastes and flock adhesive dispersions as well as of aqueous transfer systems.

Application Procedure

TUBASSIST FIX 535 is applied in pigment printing both with and without white spirit as well as in so-called ready for use pastes. It is advantageous to add TUBASSIST FIX 535 to the pastes shortly before printing. Print pastes containing TUBASSIST FIX 535 have a limited storability which may be improved by adjusting the pastes slightly alkaline with ammonia and storing them in a cool place.

Application Amount

Pigment Printing

The average application amount is 5.0 – 8.0 g/kg print paste. For textiles with a higher share of synthetic fibres or with critical materials this amount must be increased to 8.0 – 12.0 g/kg or in exceptional cases (special effects with ready for use pastes) even up to 50.0 – 60.0 g/kg. The effect of TUBASSIST FIX 535 may be enhanced furthermore by adding an acid donor to the pastes.

Synthetic thickeners, if sufficiently incorporated into print pastes, give off acid themselves.

Otherwise, it is advisable to add approx 5.0 g/kg diammonium hydrogen phosphate or ammonium sulphate (each dissolved in water at a ratio of 1 : 2).

Recipe Recommendation

	x g	water
1.0 -	2.0 g	CHT-ANTIFOAM BSN
5.0 -	10.0 g	TUBIGAT
50.0 -	250.0 g	TUBIFAST
	y g	TUBIVIS
2.0 -	10.0 g	TUBISOFT
5.0 -	10.0 g	TUBASSIST FIX 535

1,000.0 g

Fixation Terms

Optimum fixing terms are achieved with a hot air fixation at 150 °C for 4 - 5 minutes.

Screen Printing

TUBASSIST FIX 535 serves for the improvement of hot-curing screen printing pastes, flock adhesive dispersions as well as water-based transfer systems. The product is specially applied for increasing the wet or wash fastnesses as well as the dry cleaning stability.

Generally 1 - 10 % of TUBASSIST FIX 535 are applied; in screen printing pastes 1 - 6 % are usual, with flock adhesive dispersions 2 - 10 % or with flock transfer systems 2 - 8 %.

We recommend to stir in homogeneously the TUBASSIST FIX 535 into the prepared printing pastes or adhesive dispersions by means of suitable stirrers just before processing. Pastes already mixed with fixing agent have to be processed without delay and should be used up within one working day.

Please see further recommendations for use in the technical leaflets of the basic product applied.

Before going into production we recommend making it a rule first to test the suitability of the product in printing pastes and flock adhesive pastes as well as the processing parameters and the influence on the final result and also to control everything during production.

Pigment Dyeing

Due to its water-solubility TUBASSIST FIX 535 is also suited to be applied in the pigment dyeing process.

Recipe Recommendation

1.0 -	2.0 g/l	CHT-ANTIFOAM BSN
20.0 -	100.0 g/l	PADICOLL CA
	30.0 g/l	PADICOLL MV
	5.0 g/l	PADICOLL WBI
2.0 -	10.0 g/l	TUBASSIST FIX 535
	2.0 g/l	diammonium phosphate (1 : 2)

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.

Edition: October 2022

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