

TUBASSIST FIX 104 W

Characterization

Low temperature reactive fixing concentrate for heatsetting, aqueous screen printing pastes and flock adhesive dispersions. For improving the fastness levels of print effects, flockings and transfer systems, even at reduced fixing temperatures.

Chemical Structure

Polyaziridine

Supplied Form

Low viscous, clear, colourless to slightly yellowish liquid

Storage / Shelf Life

If stored properly in a cool place between + 5 °C and + 25 °C in closed original containers, the product is stable for at least 6 months. Protect from the impact of frost and excessive heat. Opened containers have to be well reclosed.

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

Influence on Printing Result / Flocking / Fastness levels

Additions of TUBASSIST FIX 104 W improve the fastness level of selected heatsetting screen printing pastes, flock adhesive dispersions and aqueous transfer systems. Especially with a fixation below 120 °C which is normally insufficient, the addition of TUBASSIST FIX 104 W still leads to good crosslinking properties, which considerably improves the operative safety with fixations within the limit range or, in case of heatsetting printing paste systems, makes a low temperature fixation possible at all.

Influence on Viscosity / Rheology

With the usually recommended application amounts (0.5 – 4.0 %) TUBASSIST FIX 104 W does not essentially change the behaviour of the printing pastes or flock adhesive systems.

Influence on Film Properties / Handle

In general, the handle and elasticity are not changed when adding the recommended amounts.

Other Properties

TUBASSIST FIX 104 W already accelerates the crosslinking of adhesive and binder systems at low temperatures. Therefore, we recommend to add TUBASSIST FIX 104 W only just before processing and to use up the paste fast, possibly within 4 hours.

Application Procedure

Fields of Application

TUBASSIST FIX 104 W serves for improving the fastness levels of various heatsetting screen printing pastes, flock adhesive dispersions as well as water-based transfer systems - especially if the required fixing temperatures cannot be achieved or guaranteed. The product is also applied when due to the processing method or in general with heat sensitive articles a fixation below 120°C is required. After preliminary testing, a fixation through storage at room temperature is possible with various, originally heatsetting basic pastes.

Recommendation for Use / Processing

In general 0.5 – 2.0 % of TUBASSIST FIX 104 W are applied in printing pastes and 3.0 – 4.0 % in flock adhesives.

We recommend to stir TUBASSIST FIX 104 W homogeneously 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 within 4 - 8 hours.

TUBASSIST FIX 104 W should not be used for applications in a temperature range higher than 130 °C because yellowing can occur.

Working utensils can easily be cleaned with water.

In concentrated form TUBASSIST FIX 104 W is very reactive, even at room temperature. Therefore the usual precautions for working with chemicals such as protective gloves and protective glasses etc. have to be observed when working with the product. If spraying mist is formed, appropriate breathing protection must be worn. Please find further details in the safety data sheets.

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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