

## PRISULON STAR

**Character** Synthetic thickener for disperse printing

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**Chemical character** Polyacrylate, ammonium salt

**Appearance** White to slightly beige, medium viscosity paste

**Ionic character** Anionic

**pH Value** 5.35 – 5.45

**Application Amount** 30 – 50 g/kg

**Stabilities** PRISULON STAR is well stable to the auxiliaries and dyestuffs usually applied in disperse printing.

The product is sensitive to water hardeners, electrolytes, ionic auxiliaries and dyestuffs.

PRISULON STAR is highly sensitive to frost; after the impact of temperatures around the freezing point irreversible changes will occur

**Storage** In a cool and dry place in closed, original containers. Due to a possible sedimentation the containers must be stirred up before use. We recommend not exceeding a storage time of six months. Opened containers must be closed again tightly

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## Properties

### Filterability

Due to the good product purity pastes produced with PRISULON STAR are easy to strain and also suitable for fine screen meshes and engravings.

### Film properties

The dried and fixed print paste films remain elastic and can be easily washed out of the fabric during the usual afterwashing process after printing.

### Rheology

PRISULON STAR produces print pastes with a distinct pseudoplasticity and an excellent printing behaviour.

### Colour Yield

The prints produced with PRISULON STAR have a good colour yield and brilliancy

## Application Amount

The viscosity of synthetic thickeners depends on the electrolyte content of the print paste. In electrolyte-free water a high viscosity is achieved with only 3.0-5.0 % PRISULON STAR. Depending on the concentration of chemicals and dyestuffs the application amount needs to be increased.

## Application Procedure

The good dispersing behaviour of PRISULON STAR needs to be emphasized, which allows the afterthickening of thin print pastes even under adverse stirring conditions by a simple stirring in. Please pay attention that the complete product is stirred and homogenized. Stirring times of 5 – 15 min are mostly sufficient.

## Recipe Recommendation

Disperse print paste, only with PRISULON STAR

Simple Recipe:

Print pastes may be exclusively thickened with PRISULON STAR. These pastes stand out for their high application amount and therefore high colour yield. Due to the acid potential of PRISULON STAR acid needs not be added. However, we recommend pretrials in case of critical dyestuffs.

Water (soft)	x g
RAPIDOPRINT XR GRANULAT	10 g
Disperse dyestuff	y g
Rapidoprint RE 7030	10 - 20 g
PRISULON STAR	30 - 50 g
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	1,000 g

## Terms of Drying, Fixation and Washing Off

The prints are finished by drying and steaming/ fixing. Fixation according to the dry heat process is possible. Steaming/ fixing is carried out under the usual conditions of the corresponding print application. The water used for the afterwashing process after printing ought to be possibly soft in order to avoid precipitations of calcium acrylate.

**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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