

PRISULON AST 55

Character	Thickener for reactive printing
Chemical character	Aqueous dispersion of acrylate and alginate mix
Appearance	Beige, pourable paste
Ionic character	Anionic
pH Value	6.5 – 7.5 (2 % stock solution)
Solubility	Soluble in cold water
Stabilities	<p>PRISULON AST 55 is well compatible with the auxiliaries and dyestuffs normally used in reactive print pastes.</p> <p>PRISULON AST 55 is sensitive to water hardeners, electrolytes, ionic auxiliaries and dyestuffs. The viscosity drops and in extreme cases precipitations occur.</p>
Storage	<p>In a dry and cool place in well-closed original containers. Opened containers must be closed again tightly. The product maintains its homogenous appearance up to 6 months. As the product may deposit in the container, it should always be stirred up before use. PRISULON AST 55 can be used by well stirring before each use up to 12 months without deterioration in performance. After 1 year storage time, product can also be used further if the performance and internal testing results on quality control parameters are suitable.</p>

Properties

Filterability

Due to their optimum product purity print pastes produced with PRISULON AST 55 are easy to strain and thus most suitable for finest engravings.

Film properties

PRISULON AST 55 gives very soft handle. Product has excellent washing properties therefore dried and fixed print paste films are very easy to remove in a normal washing-off process.

Rheology

Print pastes produced with PRISULON AST 55 have distinct pseudoplastic properties showing an excellent printing behavior.

Colour Yield

PRISULON AST 55 produces brilliant prints with a high colour yield

Pattern Definition

In addition to a good levelness, PRISULON AST 55 gives very sharp outlines.

Application Procedure

Diluting Instruction

With PRISULON AST 55 neutral stock thickenings of up to 5 % can be produced by stirring into prepared soft water.

However, working with a chemical stock consisting of the thickener and the usual chemicals in reactive printing such as urea, alkali, sequestrant, dyestuff protective agent is to be preferred. These chemicals are added to the preparation water. Finally, PRISULON AST 55 is added while stirring.

The dispersibility of PRISULON AST 55 facilitates the afterthickening of thin reactive print pastes by directly stirring in PRISULON AST 55 even under adverse stirring conditions. Care must only be taken that the complete thickener paste is stirred and homogenized. In most cases stirring for 5 - 15 min. is sufficient.

If stocks are produced with sodium bicarbonate, a short term increase in volume (foaming) may sometimes be observed. If this annoying, it can be prevented by replacing 3.0 – 5.0 g/kg of sodium bicarbonate by sodium carbonate (soda) and adding it first to the paste.

Textile Substrates

According to reactive printing PRISULON AST 55 can be printed on all kinds of textile substrates independent of the type of fibre used.

Recipe Recommendation

Print paste with PRISULON AST 55 only:

Print pastes can be exclusively thickened with PRISULON AST 55. Such pastes stand out for their very high application amount, thus colour depth but are also extremely sensitive to electrolytes.

water (soft)	x g
RAPIDOPRINT XR Granulat	10 g
soda or sodium hydrocarbonate	20 - 25 g
urea	100 g
reactive dyestuff	y g
PRISULON AST 55	35 - 50 g

1,000 g

Drying and Fixation Terms

The prints are given a drying and steaming/fixation treatment. Steaming or fixation is done according to the usual conditions of reactive printing. Fixation according to the dry heat process is possible.

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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