

® PRISULON SPE 7000

Characterization	Thickening agent for printing synthetics with disperse dyestuffs
Chemical Structure	Polysaccharide combination including carboxyl groups
Supplied Form	Light-beige powder
Ionic Character	Anionic
pH Value	10.0 - 12.0 in stock thickening
Stock Concentration	8.0 - 9.0 %
Stability	PRISULON SPE 7000 is stable to monovalent salts; it is sensitive to multivalent salts and strong acids; hard water salts may lower the fluidity.
Storage	In a cool and dry place in closed, original containers. We recommend not to exceed a storage time of 6 months. Higher storage temperatures lead to a decrease in viscosity the longer the product is stored.

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

Filterability

PRISULON SPE 7000 is very pure and, therefore, easy to strain. It is particularly suitable for rotary printing with fine screens.

Rheology

PRISULON SPE 7000 stands out due to a quick swelling in the stock thickenings and its viscosity is stable to high shearing forces.

Colour Yield

The prints show high colour yield and brilliancy.

® = registered trade mark

Pattern Definition

Print definition and evenness are excellent.

Properties of Thickener Film / Ease of Removal

The dried print paste films are soft, elastic and do not break off. Even after thermofixation, PRISULON SPE 7000 can be easily removed in a normal washing-off process.

Preservation

PRISULON SPE 7000 contains preservatives. The stability of the stock thickenings is good. If a longer stability is required, under special working conditions or adverse climatic influences, it is advisable to use additionally one of the common preserving agents. Tests for dyestuff compatibility should be carried out following the recommendations of the dyestuff manufacturers.

Application Procedure

Preparation of Stock Thickening

92 - 91 % water
8 - 9 % PRISULON SPE 7000

100 % stock thickening

- Prepare cold or warm, soft water;
- Sprinkle PRISULON SPE 7000 in at a fast but controlled rate while stirring. It is also possible to dissolve PRISULON SPE 7000 by the pre-dispersion method in the 1 to 1 1/2 fold amount of a low, water-miscible alcohol;
- Continue stirring for 10 - 20 minutes;
- Maximum viscosity is attained after 60 - 120 min. depending on the water temperature and the effectiveness of the stirrer;
- After briefly stirring the stock up again it is sufficiently homogeneous and ready for use;
- Never add powder to completely swollen stocks. Ready-to-use stocks or print pastes can be afterthickened by the pre-dispersion method.

Adjustment to a pH- value between 5.0 – 6.0 for an optimum fixation of disperse dyes should be made either when the stock has swollen completely or better directly when producing the print paste by the use of e.g monosodium phosphate or citric acid, dissolved in water at a ratio of 1:2.

Fibre Materials

PRISULON SPE 7000 is used particularly for producing high-quality prints with disperse dyestuffs on polyester, acetate, triacetate, and other synthetic fibres.

PRISULON SPE 7000 is hardly sensitive to squeezing or shearing forces, therefore, the prints have an excellent evenness and good penetration on heavy or texturized fabrics made of tightly twisted yarns and high-volume, light or fine fibrillated materials.

Dyestuff Classes / Printing Process

PRISULON SPE 7000 is preferably applied in direct printing with disperse dyes. Fixation of the dyestuffs may be effected under pressure steam, hot steam or thermosol fixation conditions.

Recommendation for Use

PRISULON SPE 7000 stocks are compatible with all types of thickeners, except crystal gum, but need not to be combined with any of them.

By nature, PRISULON SPE 7000 gives prints with a high colour yield which may be optimized under HT steam or thermosol fixation conditions by adding a fixation accelerator such as RAPIDOPRINT RRE to the print pastes.

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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