

® PRISULON DCA 130 S

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| Characterization | Dust-free thickening agent for textile printing |
| Chemical Structure | Polygalactomannan ether |
| Supplied Form | Yellowish powder |
| Ionic Character | Non-ionic |
| pH Value (80 g/l) | 6.0 - 9.0 |
| Stock Concentration | 13 % |
| Stability | PRISULON DCA 130 S has an excellent stability to hard water, bivalent and trivalent metal salts, all common printing auxiliaries and chemicals used for burn-out and discharge printing. Coagulates in alkaline medium in the presence of borates. |
| Storage | In a cool and dry place in well-closed, original containers. If the product is stored at temperatures exceeding 30 °C, a decrease in viscosity may occur. We recommend not to exceed a storage time of 12 months. |

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

Stock thickenings of PRISULON DCA 130 S are free from insoluble impurities and easy to strain.

Rheology

The very long-flowing pastes can be readily printed with finest engravings even at high printing speeds. Besides a very good penetration, an excellent areal levelness is achieved.

Colour Yield

Dye transfer from the printing paste onto the textile is good. Colour shades are not affected. Blending of the thickener with starch derivatives augments the colour yield.

® = registered trade mark

Pattern Definition

Gives optimum sharpness of outlines even in wet-on-wet fall-ons. On hydrophobic substrates, a higher print paste viscosity usually gives better results.

Properties of Thickener Film / Ease of Removal

PRISULON DCA 130 S gives soft, non-brittle print paste films which are easy to remove in a normal wash-off process.

Preservation

PRISULON DCA 130 S contains preservative. 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

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| 87 % water |
| 13 % PRISULON DCA 130 S |
| <hr/> |
| 100 % stock thickening |

- Prepare cold or warm water;
- Sprinkle in PRISULON DCA 130 S at a fast but controlled rate with constant stirring. It is also possible to dissolve PRISULON DCA 130 S by the pre-dispersion method in the 1 to 1 1/2 fold amount of a low, water-miscible alcohol or white spirit or in an automatic preparation process of the injector system type;
- 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 thickened by the pre-dispersion method.

Textile Substrates

PRISULON DCA 130 S can be utilized for a variety of direct printing applications on wool, silk, polyamide, polyester, triacetate, 2 1/2 acetate and cellulosic fibres.

Dyestuff Classes / Printing Process

PRISULON DCA 130 S can be used with almost all dyestuff classes, except with reactive dyes on cellulose fibres and naphtholates.

In addition to this, the good stability to chemicals of PRISULON DCA 130 S also permits its use for special printing applications on above substrates, e.g. for burn-out printing, discharge resist techniques and vat two-phase printing processes.

Recommendation for Use

PRISULON DCA 130 S is usually used unblended but can be mixed with almost all types of thickening agents for producing special properties. Combinations with starch derivatives (for augmenting the colour yield) and alginates have proved favourable.

The printing pastes are prepared according to the usual formulations.

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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