

®
PRINTPERFEKT CRACK PRE
®
PRINTPERFEKT CRACK BASE

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| Characterization | Aqueous print paste system for achieving a crack effect |
| Chemical Structure | <u>PRINTPERFEKT CRACK PRE</u> Compound of synthetic dispersion, thickener and additives <u>PRINTPERFEKT CRACK BASE</u> Compound of synthetic dispersion, thickener, additives and fillers |
| Supplied Form | PRINTPERFEKT CRACK PRE: whitish, high viscosity paste PRINTPERFEKT CRACK BASE: white, high viscosity paste |
| Ionic Character | Anionic |
| pH Value | 8.0 - 9.5 |
| Viscosity | PRINTPERFEKT CRACK PRE: 55,000 – 60,000 mPas PRINTPERFEKT CRACK BASE: 25,000 – 30,000 mPas |
| Storage | If stored properly between + 5 °C and + 40 °C in closed original containers, the product will hold for at least six months. The product must be protected from frost and excessive heat. Opened containers must be closed again tightly. |

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

The print paste system consisting of PRINTPERFEKT CRACK PRE and PRINTPERFEKT CRACK BASE was developed to rematch the effect of an ageing and cracking lacquer on textile materials, the so-called crack effect. With this system the desired cracks are formed in the print layer during the fixation process, so that an additional mechanical treatment of the print is not necessary. With PRINTPERFEKT CRACK BASE both white prints and very colour brilliant prints with good washfastnesses can be produced.

® = registered trade mark

Application Technique

Recommendation for Use and Processing

We recommend thoroughly stirring up PRINTPERFEKT CRACK PRE and PRINTPERFEKT CRACK BASE prior to use and blending colour additions homogeneously with the basic paste.

PRINTPERFEKT CRACK BASE ought to be applied on a soft and hydrophobic pre-print. For this we recommend the system component PRINTPERFEKT CRACK PRE.

The crack effect strongly depends on the pre-print type, the process terms in use and the application amount of PRINTPERFEKT CRACK BASE. The intensity and appearance of the crack effect can be adjusted to the corresponding demands by varying these parameters.

PRINTPERFEKT CRACK PRE and PRINTPERFEKT CRACK BASE are ready-for-use screen print pastes which can be coloured with colour pigments (0.1 – 6.0 %) depending on the demand. Without addition of pigments a white, covering crack effect is produced.

If the viscosity must be reduced, add low amounts of water (up to 5.0 %) or diammonium phosphate solution. The viscosity can be increased by homogeneously stirring in 0.1 – 0.5 % TUBIVIS DRL 300.

Printing Processes

PRINTPERFEKT CRACK PRE and PRINTPERFEKT CRACK BASE can be processed in the usual screen printing processes.

Pre-printing:

We recommend PRINTPERFEKT CRACK PRE as pre-print paste. The paste ought to be sufficiently and evenly applied to have a suitable base for overprinting. The pre-print must be dried intermediately. We recommend a 43 – 55 T polyester monofilament screen gauze depending on the design and fabric quality.

Overprinting:

PRINTPERFEKT CRACK BASE is printed on top of the pre-print directly in register. The size and structure of the cracks are controlled via the applied quantity of PRINTPERFEKT CRACK BASE. We recommend realising this by applying a thick ink layer in the screen, so that a thick print layer is produced on the fabric. However, don't try to produce an increased layer thickness by means of several paste layers since the intermediate drying process required for this layer composition would produce premature cracks, which may impair the performance of the crack paste. We recommend using a 15 – 34 T polyester monofilament screen gauze depending on the design and fabric quality.

Drying / Fixation

Fixation of the prints is usually effected by means of dry heat at 140 – 160 °C. We recommend not adding a further fixation component to possibly reduce the fixation temperatures or to shorten the fixation process.

Standard values for drying and fixation with dry heat

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| One step | in the continuous drier |
| | 140 – 160 °C, 5 – 3 min |

When fixing with radiant heat or other sources of energy, it is essential to run meaningful trials before going into production. Before going into production we recommend making it a rule first to test the suitability of the print pastes for the substrates in use as to wetting, adhesion, fastness properties, thermostability and processing parameters and to control everything as well during the production run.

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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