



SILKFLEX POLYMERS SDN BHD (545022-T)

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AQUACRACK WHITE / CLEAR

Water-based eco friendly soft auto-crack silkscreen inks for textile

Type	Chemical Composition	Supplied Form	Ionicity	pH
Aquacrack White	Titanium dioxide + binder	High viscosity white paste	Anionic	>7
Aquacrack Clear	Binder concentrate	High viscosity pale yellow paste	Anionic	>7

Properties

Aquacrack White / Clear is formulated to be suitable for crack effect silkscreen prints on cotton and polyester-cotton blend fabric. Nylon Oxal, which is a formaldehyde-free fixer, can be added if required. The Aquacrack White / Clear provides an auto-crack finish with excellent softness, elasticity, smoothness, handfeel and wash fastness. In addition, the prints are tack free and provide good anti-block properties (no face-to-face sticky transfer of inks). The Aquacrack White / Clear is also environment compliant and free of the following chemicals;

1. Formaldehyde
2. Azo
3. Poly vinyl chloride (PVC)
4. All Phthalates
5. Alkyl phenol ethoxylate (APEO)
6. Aromatic solvents
7. Heavy metals

The Aquacrack White / Clear grades differ in terms of opacity and are used based on the required colours of the print and of the fabric.

Aquacrack White – Highly opaque and soft handfeel with brilliant white tone. Suitable for prints on dark fabric.

Aquacrack Clear – Transparent and soft handfeel. Suitable to be used in combination with Aquacrack White for coloured crack prints.

Application Procedure

Print one coat of Aquacrack Base and after drying, print one or more coats of Aquacrack White / Clear on top. Thicker prints (more coats) will effect larger cracks. Dry the print completely with a hairdryer to initiate and complete the auto-cracking effect. Aquacrack White / Clear is thixotropic and can become more viscous when left standing for prolonged periods of time. However, the viscosity will reduce with stirring or agitation during the usual process of printing. Small amounts of clean water can be added to reduce viscosity if necessary. Aquacrack White / Clear is suitable for silkscreen prints with screen mesh sizes of 90-120. After drying, the prints are fully cured at 135°C for ~2 min. or heatpress at 135°C for 10 s. Nylon Oxal can be added at 1-3% to further improve wash/colour fastness if necessary. Evaluate the prints 24 hours after heat cure.

Storage

Do not exceed one year from date of manufacture. Protect from frost (>5°C). Keep lids tightly closed at all times after use.