



SILKFLEX POLYMERS SDN BHD (545022-T)

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ROYALITE WHITE / CLEAR

Non-toxic Water-based Flexible Binder Paste for Textile Silkscreen Printing

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

Properties

Royalite White / Clear are formulated to be suitable for flexible and medium soft handfeel silkscreen prints on cotton and polyester-based fabric. Nylon Oxal can be added to improve wash fastness if required. The Royalite White / Clear series provide a matt finish with the regular silkscreen printing technique. The Royalite White / Clear grades differ in terms of opacity and are used based on the required colours of the print and of the fabric. The Royalite White / Clear series is environment friendly and is completely free of the following chemicals: formaldehyde, phthalate, polyvinyl chloride (PVC), azo, lead, chromium, mercury, nickel, tin, chromium and aromatic solvents.

Royalite White – Highly opaque and highly elastic with brilliant white tone. Suitable for prints on dark fabric.

Royalite Clear – Transparent and highly elastic. Suitable for colour prints on white and light colour fabric. Well suited for process and tone colour prints.

Application Procedure

Royalite White / Clear are 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. Royalite White / Clear are suitable for silkscreen prints with screen mesh sizes of 100-130. For finer screen prints (150-200) the addition of Humidifier is recommended to reduce potential clogging of the screen. Royalite White / Clear are formulated without formaldehyde-containing fixers. Add 1-3% of Nylon Oxal into Royalite White / Clear to improve wash fastness and adhesion if necessary. The potlife after the addition of Nylon Oxal is 8 hrs. It is recommended that fixer be added right before printing and not left overnight. After drying, the prints are fully cured at 135°C for ~2 min.

Storage

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