

**Textile Effects**

# TERASIL<sup>®</sup> RAC disperse inks

For ink jet textile printing with the Reggiani DReAM industrial machine



## TERASIL® RAC disperse inks

### Process

The water-based TERASIL RAC inks are designed for direct and transfer printing of polyester on the DReAM high-speed digital printing machine.

#### Polyester preparation

##### Higher sharpness and color yield

An optimized recipe has been developed for preparation of the fabrics in order to obtain high color yield, levelness and sharpness of the prints with the water-based TERASIL RAC inks. The build-up of inks on polyester fibers is improved, which is essential to achieve deep and solid shades.

The following is a guideline recipe, usually applied by padding:

100–180 g/l THERMOCOL® MP (color yield improver)  
10–20 g/l LYOPRINT® AIR (de-aerating agent)  
pick-up 60–80 %

For **transfer printing** on paper no preparation is needed.

#### Ink jet printing

##### with DReAM

TERASIL RAC inks are suitable for the industrial DReAM machine. The main applications are flags, banners and apparel. See the instructions issued by Reggiani.

We recommend printing at room temperature (20–22 °C/68–72 °F) and relative humidity  $\geq 50\%$ , and to use CLEANJET CS as pre-filling and cleaning solution.

## Fixation

### **Direct printing on polyester**

Fixation with hot presses or calenders:

30s at 200–210 °C/392–410 °F

### **Transfer printing from paper to polyester**

Transfer/fixation with hot presses or calenders:

30s at 200–210 °C/392–410 °F

## Washing off

Rinse 5 min with cold water

Soap 5 min at 40 °C/104 °F with 1 g/l ERIOPON® OS

Reduction clearing

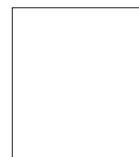
**Transfer technique** does not require subsequent washing off.

## TERASIL® RAC disperse inks

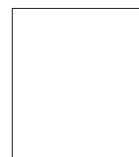
### Ink range

Wider color space

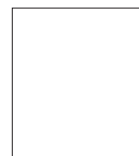
**TERASIL Yellow RAC-100**



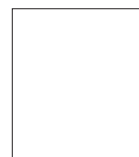
**TERASIL Orange RAC-200**



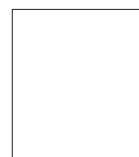
**TERASIL Magenta RAC-300**



**TERASIL Blue RAC-400**



**TERASIL Cyan RAC-500**



**TERASIL Black RAC-700**





## Reggiani printing machine

# DReAM machine

### DReAM

**the best industrial  
ink jet textile  
printing machine**

DReAM is a roll-to-roll/roll-to-folder industrial textile digital printing machine, suitable for a wide range of media (knitted, woven, non-woven, carpet, leather and other). The machine is fitted with a rubber blanket and an on-line dryer and features different entry/exit configurations. It is equipped with rugged HP-Scitex printheads and with special proprietary Aprion piezoelectric drop-on-demand technology that ensure high reliability, productivity and output.

The DReAM machine is particularly suitable for short/medium runs as well as sampling.

Originally designed for fashion and household fabrics, it also finds successful application in flags and banners, fashion accessories, home furniture and automotives.

The Reggiani Macchine's proprietary combi option adds an on-line flat screen for special effects like glittering, metallic effects, chemical resins, etc.



## Main advantages

- High productivity (up to 235 sqm/h)
- Low ink consumption
- Quick time-to-market
- Wide range of media (knitted, woven, non-woven, carpet, leather and other)
- Wide range of inks (acid, reactive, direct disperse, sublimatic disperse)
- Wide range of printing width (1800, 2400, 3400 mm)
- High resolution (600 × 600 dpi)
- High reliability (embedded printheads maintenance system, unlimited printheads lifetime)
- Different entry/exit configurations
- Adjustable printheads to media distance



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