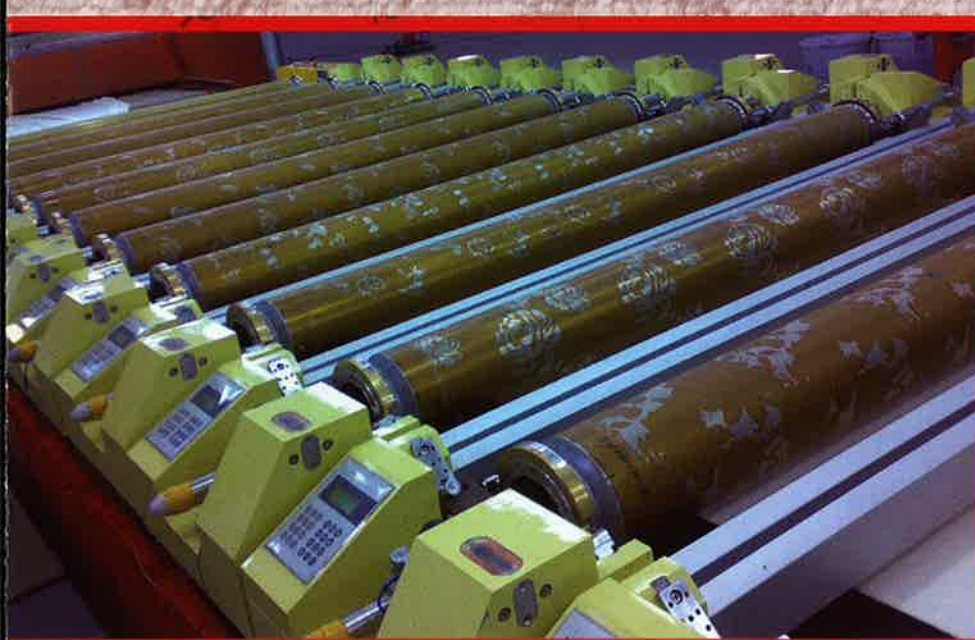


# CRILAT 1815

**CRILAT 1815** is an aqueous dispersion of a soft, self-crosslinkable acrylic polymer, free from formaldehyde and alkylphenol-ethoxylated surfactants, used for textile printing.



## PACKAGING

CRILAT 1815 is available in bulk quantities, 1000 L IBC and 125 Kg PE drums.

## STORAGE

CRILAT 1815 is stable for at least 6 months when stored in tightly closed tanks or in its original packaging at temperatures between  $+5^{\circ}\text{C} \div +40^{\circ}\text{C}$ .

The main characteristics of **CRILAT 1815** include the following:

- a) soft hand
- b) self-crosslinking at low temperature
- c) good water resistance
- d) good chlorinated solvent resistance
- e) formaldehyde free
- f) APEO-free

## APPLICATIONS

**CRILAT 1815** is an aqueous dispersion of a soft, self-crosslinkable acrylic polymer, free from formaldehyde and alkylphenol-ethoxylated surfactants.

It can be used in the following fields of application:

- binder for non woven
- pigment binder in textile screen printing application.

Fabrics treated with **CRILAT 1815** have good chlorinated solvents and water resistance.

Printed fabrics show high resistance to abrasion and washing, in wet and dry conditions. The polymer crosslinking is not dependent on the temperature and it occurs during the drying process without development of formaldehyde.

	UNIT	VALUE	METHOD
<b>1. SUPPLY SPECIFICATIONS</b>			
Solid content	%	49±1	MVPF 01
Brookfield Viscosity (1)	mPa·s	125±75	UNI EN ISO 2555
pH		8.0±0.5	ISO 976

## 2. TYPICAL DISPERSION VALUES

Minimum film-forming temperature	°C	< 0	UNI 8490-14
Particle size distribution	µm	0.12÷0.18	MVANS 20
Density at 23°C	Kg/dm³	1.04	MVPF 18
Dispersing system		anionic/non ionic	
Residual monomer	%	0.1 max	MVPF 23
Mechanical stability		very good	MVAT 013

## 3. FILM CHARACTERISTICS

Aspect		transparent/colourless	visual
Glass transition temperature	°C	c.a -15	MVANS 01

(1) RVT 20 rpm spindle 2, 23°C



**Picture 1:**

Application on printing screen of a formulation based on Crilat 1815



**Picture 2:**

Home washing resistance evaluation of fabrics printed with Crilat 1815



**Picture 3:**

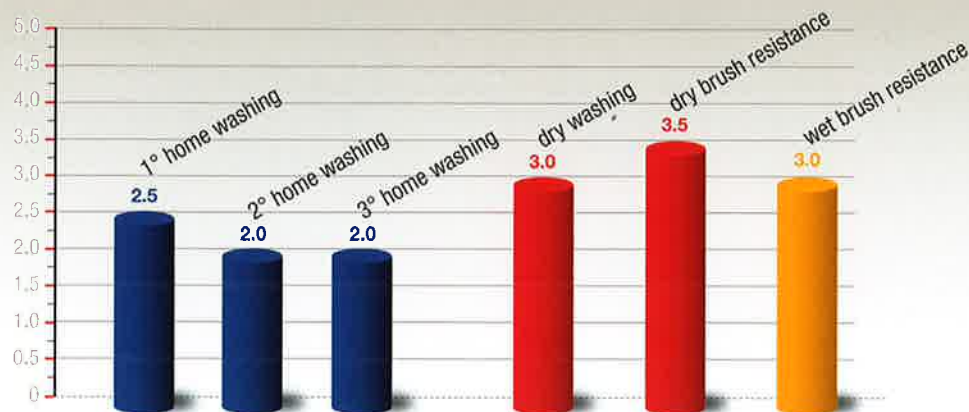
Crilat 1815 cures at room temperature without any external additive

## STANDARD FORMULATION FOR TEXTILE PRINTING

Thickener	1.8
H <sub>2</sub> O	82.6
Ammonia	1.0
Defoamer	0.1
Pigment	2.5
Crilat 1815	12.0

EVALUATION OF PRINTED TEXTILE

COLOUR FASTNESS OF FABRICS PRINTED WITH CRILAT 1815



RATING FROM 1 (NEGATIVE) TO 5 (EXCELLENT)



**Picture 4:**  
Laboratory machine used for dry washing of fabric samples printed with Crilat 1815



**Picture 5:**  
Crock-meter used for the evaluation of brush resistance of treated fabrics



**Picture 6:**  
Evaluation of printed fabric samples by light chamber and gray scale

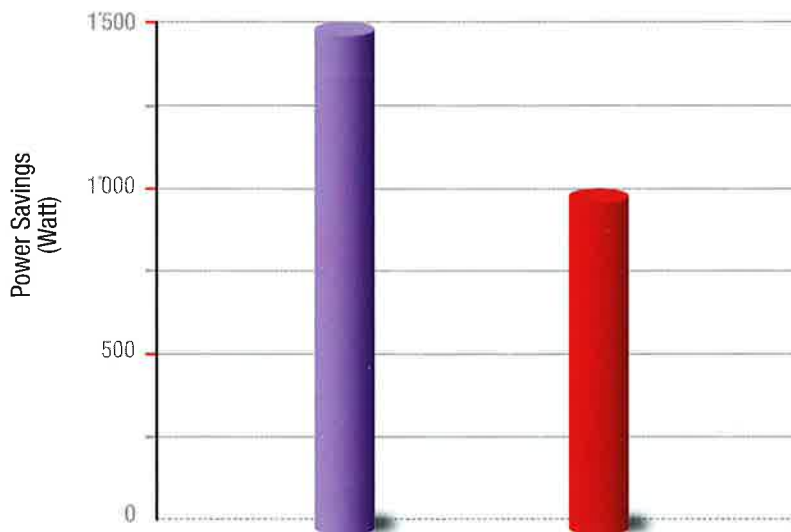


**Picture 7:**  
SILVERSON MECHANICAL STABILITY  
Crilat 1815 has good mechanical resistance: after a stress of 7'000 rpm for 30' the coagulum content is 18 ppm

**CRILAT 1815 DOES NOT DEVELOP FORMALDEHYDE  
AND IS COMPLETELY APEO-FREE.  
IT CROSSLINKS AT ROOM TEMPERATURE.**



**COMPARED TO TRADITIONAL PRODUCTS CROSSLINKABLE AT AROUND 140°C,  
CRILAT 1815 CROSSLINKS AT ROOM TEMPERATURE  
ALLOWING A REMARKABLE ENERGY SAVING IN INDUSTRIAL PROCESSES.**



Crosslinking system of binder used in textile department

**BINDERS WITH TRADITIONAL CROSSLINKING AGENTS** ■ **CRILAT 1815** ■

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