



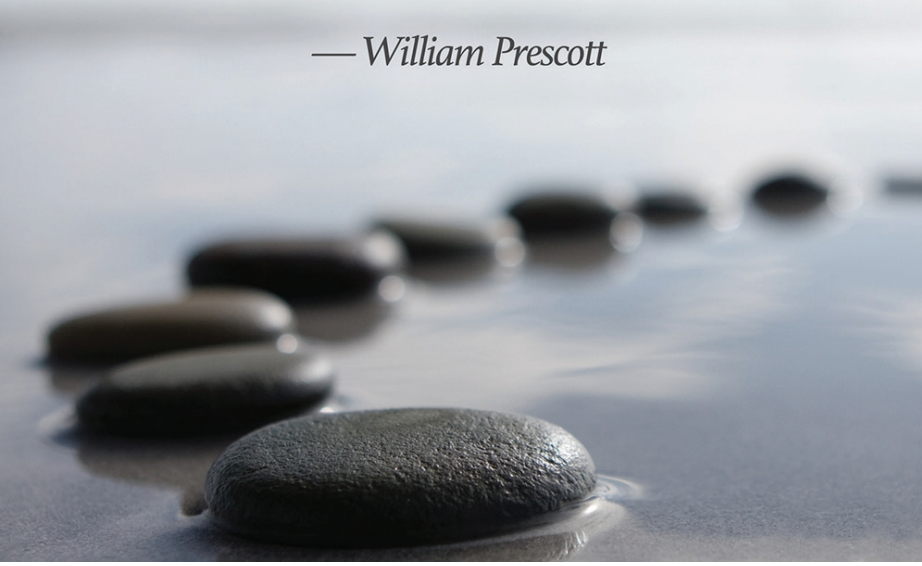
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*An obstacle is often
a stepping stone.*

— William Prescott



“A doubtful friend is worse than a certain enemy. Let a man be one thing or the other, and we then know how to meet him.”

-AESOP

“The greatest way to live with honor in this world is to be what we pretend to be.”

Socrates

We promise according to our hopes and perform according to our fears.

~ Francois De La Rochefoucauld

Education is an ornament in prosperity and a refuge in adversity.



Soluble Dyestuff Thickeners

THICKENERS:

1. Acids

1. Cresagum LS-110

• Disperses

- Cresagum DKT-4

• Reactives

1. Cresagum RE-10
2. Cresagum RE-S/5

There are three types of thickeners according to the % of solids:

- High Viscosity -> 2-3%
- Medium Viscosity -> 6-7%
- Low Viscosity -> 12-13%

As lower is the viscosity better is the evenness although more quantity of product is needed.

CRESAGUM LS-110:

Type	Guar
Viscosity *	13% sol. 50.000 Cps ± 5.000
PH (sol. 7%)	7 ± 0,5%
Grs./ Kg.	130
Applications	Polyamide-wool fibres Polyester fibres PAN fibres Discharge

Preparation Usually at 13% in cold water by turbo stirring for 30 min. Warm water at 50-60°C accelerates the dissolution and the swelling.

* Viscosity 10 rpm – Spindle nº 6

Compatible with all kind of thickening agents used in the printing process.

STOCK PASTE	for 1 kg.
CRESAGUM LS-110	130
Urea	50
Butinol	30
Tartaric acid 1:1	50
Water rest	740
	<hr/> 1000 grs.

MOTHER PASTE	for 1 kg.
Stock Paste	X
Acid dyestuff	Y
Urea	50
Butinol	30
Tartaric acid 1:1	50
Water	Rest
	<hr/> 1000 grs.

- Vaporized at 104°C, 90% humidity, 40min
- Washed with Cresanet R at 30-35°C (1-2 gr/l)

CRESAGUM DKT-4:

Type	Etherified polysaccharides
Viscosity *	8% sol. 50.000 Cps ± 5.000
PH (sol. 7%)	7 ± 0,5%
Grs./ Kg.	80/90
Applications	Polyester fibres
Preparation	In cold water. After swelling acidify to pH 5,5-6 with tartaric acid and add 10 g/kg of a fixation accelerator (carrier).

* Viscosity 10 rpm – Spindle nº 6

Both traditional printing as alkali discharge printing.

STOCK PASTE	for 1 kg.
CRESAGUM DKT-4	80
Tartaric acid 1:1	3
DILATADOR PES	10 (dilator)
Water rest	907
	<hr/> 1000 grs.

MOTHER PASTE	for 1 kg.
Stock Paste	600
Dispers dyestuff	30
Tartaric acid 1:1	3
DILATADOR PES	10 (dilator)
Water rest	357
	<hr/> 1000 grs.

- Vaporized at 175°C, 65% humidity, 8min
- Washed at 70°C with:
 - 2 ml/l NaOH
 - 4 ml/l sodium hydrosulfite
 - 1 gr/l dispersing agent MF-630

CRESAGUM RE-10:

Type	Alginate
Viscosity *	8% sol. 65.000 Cps ± 10.000
Grs./ Kg.	80
Applications	Cellulose fibres
Preparation	A sequestrant such as sodium exametaphosphate is recommended (Cresalon AL-60). Dissolve the sequestrant agent in cold water and Cresagum RE-10 using a high speed stirrer.

* Viscosity 10 rpm – Spindle n° 6

Compatible with anionic and non ionic dyes and auxiliaries.

STOCK PASTE	for 1 kg.
CRESAGUM RE-10	80
CRESALON AL-60	15
Urea	150
Sodium bicarbonate	30
DEOXIN LAP	10 (anionic oxidant)
Water rest	715
	<hr/> 1000 grs.

MOTHER PASTE	for 1 kg.
Stock Paste	770
Reactive dyestuff	40
Urea	150
Sodium bicarbonate	30
DEOXIN LAP	10 (anionic oxidant)
	<hr/> 1000 grs.

- Vaporized at 104°C, 90% humidity, 40min
- Wash boil, 1-3 gr/l of CRESANET R-110

CRESAGUM RE-S/5:

Type	Sodium alginate and synthetic
Viscosity *	5% sol. 70.000 Cps ± 5.000
Grs./ Kg.	50
Applications	Cellulose fibres
Preparation	A sequestrant such as sodium exametaphosphate is recommended (Cresalon AL-60). Dissolve the sequestrant agent in cold water and Cresagum RE-S/5 using a high speed stirrer.

* Viscosity 10 rpm – Spindle n° 6

The alginate/synthetic color performance is better than alginate and more economic but it washes worse.

Compatible with anionic and non anionic dyes and auxiliaries.

STOCK PASTE	for 1 kg.
CRESAGUM RE-S/5	50
CRESALON AL-60	10
Urea	150
Sodium bicarbonate	30
DEOXIN LAP	10 (anionic oxidant)
Water rest	750
	<hr/> 1000 grs.

MOTHER PASTE	for 1 kg.
Stock Paste	770
Reactive dyestuff	40
Urea	150
Sodium bicarbonate	30
DEOXIN LAP	10 (anionic oxidant)
	<hr/> 1000 grs.

- Vaporized at 104°C, 90% humidity, 40min
- Wash boil, 1-3 gr/l of CRESANET R-110

THICKENERS

REACTIVE & DISPERSE

CRESACLEAR SRD (for reactive dyes)

CRESACLEAR SRD : Synthetic thickener for reactive and disperse dyes.

- It can be used on all type of flat bed or rotary printing machines.
- Suitable for printing on cotton, viscose rayon and all the cellulose fabrics.
- Complete hydration is occurred immediately, far different from alginates which takes up to 24 hours.
- CRESACLEAR SRD allows better leveling, higher definition and superior color yield than pastes prepared with alginates.
- It is excellently removable after washing off process, allowing a very soft handle to the finished printing.
- CRESACLEAR SRD is unaffected by bacterial attacks, having far superior shelf lives than alginate based pastes.
- Hard water may influence the soft handle as well as the final viscosity of the paste. We recommend the addition of CRESALON AL-60.
- To improve electrolyte stability, it is possible to combine CRESACLEAR SRD with alginate (Cresagum RE-10/RE-S5)

Application

Printing Orientative Recipe ;

Distilled water	Rest
Urea	60 - 150 gr / kg
Sodium Carbonate	30 gr / kg
DEOXIN LAP	10 gr / kg
CRESACLEAR SRD	35 - 45 gr / kg
Reactive dye	X gr / kg
Total →	1,000

Direct addition of **CRESACLEAR SRD** allows post-thicken immediately alginates print pastes, just by stirring.

Steaming

Temperature	: 104°C
Steam	: 90 %
Time	: 40 minutes

Washing off

- 1.- Rinse with cold water with overflow
- 2.- Wash at 90°C – 100°C with 2 g/l **CRESALON AL-60**

Distilled water	757
Urea	150 gr / kg
Sodium Carbonate	35 gr / kg
THICKENER	50 gr / kg
DEOXIN LAP	8 gr / kg
Total →	1,000

Viscosity RVT (sp7 – 50 rpm) :	Competitor product	: 22,320 cps
	Cresaclear SRD	: 28,800 cps

Add reactive Black (concentration 50 %) : 200 g/kg

Viscosity RVT (sp4 – 20 rpm) :	Competitor product	: 3,000 cps
	Cresaclear SRD	: 2,570 cps

Viscosity RVT (sp4 – 50 rpm) :	Competitor product	: 2,000 cps
	Cresaclear SRD	: 1,736 cps

Viscosity at 48 hours :

Viscosity RVT (sp4 – 20 rpm) :	Competitor product	: 3,770 cps
	Cresaclear SRD	: 4,590 cps

Viscosity RVT (sp4 – 50 rpm) :	Competitor product	: 2,364 cps
	Cresaclear SRD	: 2,820 cps

Combined with alginates

Distilled water	Rest
CRESAGUM RE-10	80 gr / kg
Urea	150 gr / kg
Sodium Carbonate	30 gr / kg
DEOXIN LAP	10 gr / kg
Reactive dye	X gr / kg
CRESACLEAR SRD	5 - 10 gr / kg
Total →	1,000

VISCOSITY STUDIO COMPARISON

CRESACLEAR SRD
vs
Competitor product

THICKENERS

REACTIVE & DISPERSE

CRESACLEAR SRD (for disperse dyes)

CRESACLEAR SRD : Synthetic thickener for reactive and disperse dyes.

- CRESACLEAR SRD is a thickener of high quality and concentration for disperse dyes.
- Easy and quick pastes' preparation.
- Easy viscosity fitting.
- Stable viscosity during the production and stock paste.
- It is not necessary the addition of acids, carriers or oxidant agents.
- In general preparation at 12 gr / kg for stock paste.

Orientative Recipe ;

Distilled water	988 gr / kg
CRESACLEAR SRD	12 gr / kg
Disperse dye	X gr / kg

Note: With the dye addition, it is produced a viscosity drop of the paste, the viscosity is back with the addition of 0,5-1% of CRESACLEAR SRD, depending on the amount of the dye.

FIXING

30' at 1,5 Atmospheres overpressure
10' at 175°C Reheated Steam
1,5' at 190°C Air



Washing Cold water
Reducer Water at 60°C-70°C

Caustic soda 2 g/l
Cresanet R-110 2 g/l
Rinse with cold water
Neutralized with acid bath with 2 g/l acetic acid

News From Printex

Mr. Gomez Ignasi(Sales Engineer) from Print Corex (Cresa) visited Pakistan from 18th May till 26th May, 2017. During his visit, he met different valuable customer and discuss the new product range from Cresa.

Wishing you all a very
Happy Ramadan Mubarak.



Mr. Gomez Ignasi also introduced the Pigment Dispersions for Paint, Leather, Paper and Agro from their Sister Concern – High Chemie.

By the Grace of Allah Almighty, Roq installed first Oval Pro at Masood Textile Mills , Faisalabad.



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