

Matsumin

Stretch Clear 301-5 / Stretch White 301-5

1) Summary

Matsumin Stretch 301Series are waterbased elastic binder series to be used for pigment printing on synthetic knit fabric , especially Spandex or Lycra fabric such as swimwear or exercise wear . This series gives extremely good elasticity, flat, smooth and non tacky surface.

Matsumin Stretch 301Series are environmentally and ecologically safe type printing inks, so they are free of APEOs, PVC, Phthalate, Formaldehyde and OrganoTin compound.

Matsumin Stretch 301Series were particularly designed for the use on automatic carousel printing machine; therefore, it has non clogging property. In case Stretch 301 Series are printed on polyester pre-dyed fabric, the disperse dye used for the fabric may be sublimated up to the print. In the same product line, there is an anti-sublimation paste called Under Base Blocker 301LG to be printed underneath. (please, refer the technical data sheet.)

2) Nature

	Stretch Clear 301-5	Stretch White 301-5
Appearance	Milky White Paste	White Paste
Viscosity	85,000 ± 5,000 mPa · s	85,000 ± 5,000 mPa · s
pH	8.5 ± 0.5	8.5 ± 0.5
Specific Gravity	1.00 ± 0.05	1.30 ± 0.05

※p.H. rate is purposely adjusted slightly high in order to stabilize for long storage and also workability. During printing p.H. adjusting agent is evaporated during dry/baking processes. Therefore, the final product treated shows its p.H. 6.0-7.5, not higher than 7.5.

3) Usage

{Standard Recipe}	Color	White	Opaque
Stretch Clear 301-5	100	-	70-80
Stretch White 301-5	-	100	20-30
Neo Color pigment	~10	-	~10
Fixer F or Fixer N	2	2	2

Recommended Parameters

Fabric Types



100% Cotton
Cotton/ Poly Blend
etc.

Screen Mesh



100~150 mesh/inch

Squeegee



Durometer : 70/90/70
Square Edge

Flash & Cure



With Fixer N :
150°C × 2~3mins.
With Fixer F :
120°C × 2~3mins.

Pigment



Up to 10%

AUXILIARIES



Fixer F
Fixer N

Storage



5°C~30°C

Clean Up



Warm water
and mild detergent



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The above information is based on our knowledges and experiences currently available. Please, test and evaluate before the actual use.





5) N.B.

- ① Whenever stop the squeegee, flood the ink over the screen stencils to avoid dryness.
- ② The degree of sublimation from the fabric must be pre tested. Heavy sublimation may not be avoid by Under Base Blocker 301LG.
- ③ Curing under proper condition is must due to its non dry property.
If fastness is insufficient after 1 path of dryer, do the same again.
- ④ Matsumin Stretch 301Series have good workabilities; however, additional Printgen EG or propylene glycol 2-3% into the printing recipe is advisable if any screen clogging happens.
- ⑤ Cross Linking Agent is either Fixer F or Fixer N.
 - With Fixer F, the paste must be used up within 12 hours. The left over can not be used on the next day.
 - With Fixer N, it only gets activated when the heat over 140degree is applied; therefore, the ink left over still can be reused after.
- ⑥ Viscosity adjustment.
 - To increase, add either Emacol R530 at 0.1- 0.5% or Emacol R-600 at 0.5-1.0%.
 - To reduce, add Catalyst #3000 at 0.5-2.0%
- ⑦ Seal tight after each use. This is waterbased paste, so avoid from drying. Keep in cool and dark place for long storage.



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