



# Matsumin Clear 301C-9 / Mat 301M-3 / White 301W-10

Water based print for automatic machine printing

## 1) Summary

301series are water based binders specially designed for printing on Automatic Rotary (Carousel) Printing Machines. Ordinary water based Binders have critical difficulties during a printing process on Automatic Rotary (Carousel) Printing Machines such as screen clogging, viscosity increase and particularly the ink build up on a screen bottom during wet on wet print. 301series can prevent these problems. Long time continuous printing operation can be achieved with much less screen clogging and ink build up on a screen bottom. Moreover, they can obtain soft hand feeling and excellent fastness. 301series are eco friendly products without containing formaldehyde, APEO nor Mineral Spirit.

## 2) Nature

	Clear 301C-9	Mat 301M-3	White 301W-10
<b>Appearance</b>	Milky White Paste	White Paste	White Paste
<b>Viscosity</b>	35,000 ± 5,000 mPa · s	35,000 ± 5,000 mPa · s	120,000 ± 10,000 mPa · s
<b>pH</b>	8.5 ± 0.5	8.5 ± 0.5	8.5 ± 0.5
<b>Specific Gravity</b>	1.00 ± 0.05	1.10 ± 0.05	1.30 ± 0.05

## 3) Use & Application of each

- I) Clear 301C-9 : The coloring paste to be mixed with Neo Colors. Clear 301C-9 gives a brilliant and vivid shade on white fabric.
- II) Mat 301M-3 : The coloring paste to be mixed with Neo Colors. Mat 301M-3 can be used for opaque prints on colored fabric, so called matte print.
- III) White 301W-10 : High coverage rubberized white paste to be used as the under layer of the whole design to cover the ground fabric color. This also can be used for half tone printing with high mesh dots screen.

### Recommended Parameters

#### Fabric Types



100% Cotton  
Cotton/ Poly Blend  
etc.

#### Screen Mesh



Under White:  
150~250 mesh/inch  
Color Print:  
150~300 mesh/inch

#### Squeegee



Durometer : 70/90/70  
Square Edge

#### Flash & Cure



With Fixer N :  
150°C × 2~3mins.

#### Pigment



Up to 10%

#### AUXILIARIES



Fixer N

#### Storage



5°C~30°C

#### Clean Up



Warm water  
and mild detergent



**MATSUI SHIKISO CHEMICAL CO., LTD.**

64 Kamikazan Sakuradani-cho,  
Yamashina-ku,  
Kyoto 607-8466 Japan

☎ : 81-75-594-5612

☎ : 81-75-594-0829

✉ : export-sales@msc-color.co.jp

🌐 : www.msc-color.co.jp

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

## 4) Usage

{Standard Recipe}	Color	White	Opaque
Clear 301C-9	100	-	-
Mat 301M-3	-	-	100
White 301W-10	-	100	-
Neo Color pigment	~10	-	~10
Fixer N	2	2	2

## 5) N.B.

- ① Additional Fixer N is a must.
- ② To increase the fastness, perform the heat curing through conveyor dryer 2 times.
- ③ To increase the viscosity of the inks, add the following auxiliaries into each ink and mix well evenly before use. Emacol R-530E 0.1- 0.5% / Emacol R-600E 0.5-2.0 %
- ④ To reduce the viscosity, use Catalyst #3000 0.5-2.0 %.
- ⑤ When Fixer N is mixed, the leftover ink after printing should be sealed and stored for re use. However, when Fixer F and Fixer L are mixed instead, the whole paste must be used up within 12hours. Don't use the leftover inks.
- ⑥ Do not leave the drum opened , and avoid the ink surface getting dry.
- ⑦ Keep sealed and store in cool and dark place for storage.



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