

Huizhou Yirun Silicone Co.,Ltd.&Xinguang Silicone Co.,Ltd.

Dongtaiheng Industrial District, Xinxu ,HuiyangArea Huizhou city Guangdong province China 516223

Tel:+86-0752-3620489 FAX:+86-0752-3522837

TDS of Xinguang silicone ink

HD Silicone effect for waterproof migration Nylon fabric

Preparation:

- 1.Mesh&Squeegee: **120(48T)** Mesh number ;**65-75** degree Squeegee.
- 2.: Pigments added ratio:**For white and fluorescent color 20%,other color 10%**
- 3.Catalyst mixing ratio:**2%** slow dry XG-866B-1 and fast dry XG-866B-2 can mix together for using.
- 4.Thinner XG-128A adding ratio:**0-20%** thinner is not necessary for hand printing
- 6.Heating Temp and time: Flash cure temp :**100°C- 120°C for 6-10 seconds ,Drying temp :120°C- 140°C for about 2 -5 minutes.**

Silicone ink printing tips:

1. Special agent for under coating for two times:

A.	Crossing linker	XG-360Z-1	25G	
	Crossing linker agent	XG-360ZB	2.5G	10%
B.	Adhesion agent	XG-180A	25G	
	Adhesion agent harder	XG-180B	2.5G	10 %

Two solutions can chose A or B depends on fabric type,need to do test first.

Cure by temp of 120°C 10-20 seconds. Need longer curing time than silicone ink.

2. HD silicone XG-866A for under coating for two times :

HD silicone	XG-866A	60G	
Fast dry catalyst	XG-866B-2	1.2G	2% If machine printing to use slow dry catalyst.

Thinner XG-128AH thinner is not necessary for hand printing,5-20% is enough for machine printing.

Cure by temp of 120°C 6-10 seconds.

3. Anti-migration silicone printing for 2-3 times :

Anti-migration silicone	XG-866F	50G
-------------------------	---------	-----

Anti-migration silicone XG-866F-1 50G

Anti-migration silicone agent XG-866FB 1G

Fast dry catalyst XG-866B-2 1G 2% If machine printing to use slow dry catalyst.

Thinner XG-128AH thinner is not necessary for hand printing,5-10% is enough for machine printing.

Cure by temp of 120°C 6-10 seconds.Can not heat to be totally dry ,or will easy lead to be delamination.

To mix with 10-30% Elastic silicone XG-866A-LK together for printing can increase the ink toughness.

4. High density silicone printing for 2-5 times :

HD silicone XG-866A 60G

Fast dry catalyst XG-866B-2 1.2G 2% If machine printing to use slow dry catalyst.

Thinner XG-128AH thinner is not necessary for hand printing,5-10% is enough for machine printing.

Cure by temp of 120°C 6-10 seconds.

5. Color effect silicone printing for 3-4 times :

HD silicone XG-866A 50G

White color pigment XG-102 10G **For white and fluorescent color 20%,other color 10%**

Fast dry catalyst XG-866B-2 1G 2% If machine printing to use slow dry catalyst.

Thinner XG-128AH thinner is not necessary for hand printing,5-10% is enough for machine printing.

Cure by temp of 120°C 6-10 seconds.

6.Glossy silicone ink or matte silicone ink for top coating if needed.

A, Glossy top coating for 1-2 times:

Glossy silicone ink XG-399-3 50G

Fast dry catalyst XG-866B-2 1G 2% **It will be better to use slow dry catalyst XG-866B-1 and fast dry half and half. If for machine printing to use slow dry catalyst.**

Thinner XG-128AH thinner is not necessary for hand printing,5-10% is enough for machine printing.

Cure by temp of 100-110°C 10-25 seconds **Have to get silicone bubbles out first ,try to use code wind**

to support and it will be better to use low temp by longer heating time.

B, Matte top coating for 1 time:

Matte silicone XG-866M 50G

Fast dry catalyst XG-866B-2 1G 2% If machine printing to use slow dry catalyst.

Thinner XG-128AH thinner is not necessary for hand printing,5-10% is enough for machine printing.

Cure by temp of 120°C 6-10 seconds.

After printing finish, to heat by 120°C for about 2 -5 minutes.