

Ink

WSL-AP series

FIELD OF APPLICATION

Substrates

The Water based screen printing ink WSL series is excellently suited to print onto
Hoisery Cloth,
T-Shirt
canvas
Denim
Spandex
Lycra
Water-Proof Nylon
Nylon
Canvas

Field of Use

WSL series is designed to print on T-Shirts, Denim Jeans & Jackets,Accessories etc.

The ink is used as 2 component ink. This special ink has compared to other 2 component inks has very good adhesion to the substrate and is highly qualified for apparels standard.

CHARACTERISTICS

This semi glossy, physically drying and chemical reactive screen-printing ink exhibits good mechanical & chemical resistance as well as good flexibility and adhesion. Excellent print ability and stable in color matching. Easy for operation, soft hand feeling, High fastness and good elasticity, & alkali resistance, UV resistance, hydrolysis resistance. In accordance with environmental protection standard, without any formaldehyde and free APEO.

PH level of the ink is 7.5-8.5.

HOW TO USE

Dilute the ink with 2%-3% of water if needed. Add Hardener AP-002 to improve the mechanical strength of the ink on substrate.

WSL-AP series is designed to dry slowly in order to avoid clogging.

For overprinting, the next color is printed only after the previous printed ink becomes tack free.

In order to achieve high deposition of ink /3 dimensional printing effect. Its advisable to use HR series basecoat to achieve desire print. Basecoat is used as two component and print layer by layer and each layer should be touch dry before printing next layer. Kindly follow TDS for more information.

Mesh Recommended- 40T-100T

Tack Free Time	5-10 minutes	Natural Cure
Hard Drying Time	6-8 hours	Natural Cure

If several layers are printed longer drying time is recommended

Note: - Hardener must be added in WSL-AP color.

CLEANER

Use Water for cleaning the screen /washing up.

RANGE OF COLORS

Basic Colors

104- White
203- Original Yellow
209- Mid Yellow
302- Deep Red
305- Orange
3038- Light Resistant Pink
401- Violet
403- Original Blue
404- Ultramarine Blue
408- Cyanine Blue 501-Black
601- Green

Fluorescent Colors

131-Fluorescent Yellow
133-Fluorescent Red
140-Fluorescent Green
159-Fluorescent Pink

Metallic Colors

801 Silver
901 Pale Gold

ADDITIVES

Thinner:

Before production, the viscosity of the screen printing must be adjusted by the addition of water.

Hardener

Prior to printing hardener must be added in correct quantity and always by weight and mixture must be stirred thoroughly. Hardeners are sensitive to humidity and always stored in a sealed container. Hardener AP is the standard hardener.

The two ratios are

- 1) 5% Hardener AP-002
20 parts by weight of ink + 1 part by weight of hardener
- 2) 10% Hardener AP-002
10 parts by weight of ink + 1 part by weight of hardener the second variation must be applied if high resistance is required.

Technical Data Sheet

Screen Printing inks

2024
24,Jan

Levelling agent

0.5% to 1% of 04B levelling agent is added in the ink to achieve good levelling while printing.

TYPE OF PACKING

5kg/20kg Can

SHELF LIFE

Shelf life depends on the reactivity of the ink while adding hardener as well as storage conditions (temperature).

The shelf life for an unopened ink container if stored in dark room at a temperature of 15°C-25°C is one year for basic colour & six months for metallic and fluorescent colors.

Under different conditions, particularly higher storage temperatures, the shelf life is reduced. In such case, the warranty given by Spinks expires.

PRECAUTION

- 1) Hardener AP is the standard hardener. At room temperature 20 °C-25°C a pot life is 4-5 hours. If temperature is higher shelf life of the ink will reduce.
- 2) Please refer MSDS before use.
- 3) Be sure to do trials before commercial run to confirm that the product fits the purpose
- 4) Additional technical information may be obtained from our Technical Department.
- 5) All characteristics described in this Technical Data Sheet refer

exclusively to the standard products listed under range, provided that they are processed in accordance with the intended use and only when used with the recommended additives. The selection and testing of the ink for specific applications is exclusively your responsibility. Should, however, any liability claims arise, they shall be limited to the value of the goods delivered by us and utilized by you with respect to all damages not caused intentionally or by gross negligence.