

Ink

Water Base

WSL series

FIELD OF APPLICATION

Substrates

The Water based screen printing ink WSL series is excellently suited to print onto
Polyester Mesh
PU leather
PVC leather
Genuine leather
EVA (Split, Molded, Skin)
Water-Proof Nylon
Nylon
Canvas

Field of Use

WSL series is designed to print on Polyester Mesh, Flip flop, Hawai Chappal, Molded EVA Sleeper, EVA Sandals, EVA Soles, EVA Shoes, EVA Yoga Mat, EVA Toys, Nylon & water-proof Bag-pack, Polyester Umbrella.

The ink can be used as 2 component ink. This special ink has compared to other 2 component inks, a very good adhesion to the substrate and is highly qualified for footwear 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 printability and stable in color matching. Easy for operation, soft hand feeling, High fastness and nice elasticity, cold resistance , bending resistance (-20 C) in dry or wet both

bending over 150,000 times, acid & 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

Apply EVA Primer 2303 to EVA substrate by wiping to improve the mechanical strength of the ink. For other material except EVA no need to use EVA primer as pre-treatment. Dilute the ink with 2%-3% of water. Add Hardener WS-001 to improve the mechanical strength of the ink on substrate. WSL 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.

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

CLEANER

Use Water for cleaning the screen /washing up.

RANGE OF COLORS

Basic Colors

100 Transparent
105 H.D. White

Technical Data Sheet

Screen Printing inks

2020
24.Jan

201 Deep Yellow
203 Original Yellow
206 lemon yellow
300 Rose Red
3020 Dark Red
3038 Light Resistant Magenta
304 Bronze Red
305 Orange
401 Violet
403 Original Blue
404 Ultra Marine
408 Emerald Blue
501 Black
601 Green
701 Brown

Fluorescent Colors

131 Fluorescent Yellow
133 Fluorescent Red
134 Fluorescent Orange
140 Fluorescent Green
148 Fluorescent Blue
141 Fluorescent Violet

Metallic Colors

801 Silver
901 Pale Gold
902 Rich Gold

ADDITIVES

Thinner:

Before production, the viscosity of the screen printing has to 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 to be stored in a sealed container. Hardener WS-001 is the standard hardener.

The two ratios are

- 1) 5% Hardener WS-001
20 parts by weight of ink + 1 part by weight of hardener
- 2) 10% Hardener WS-001
10 parts by weight of ink + 1 part by weight of hardener

The second variation must be applied if high resistance (e.g. dry & wet Test) is required.

Levelling agent

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

TYPE OF PACKING

5-kg 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 a dark room at a temperature of 15°C-25°C is 6 months for basic, metallics 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 WS-001 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 any and all damages not caused intentionally or by gross negligence.