

Technical Data Sheet

Date of issue: 21.05.2023

Version No: 02

INKMASTER Woven Sack Ink Series



Description

INKMASTER Woven Sacks Surface Printing Inks are highly specialized pigmented inks. Tailored for high quality Flexo printing applications on treated and untreated Poly and PP Woven Sacks. **INKMASTER** Woven Sacks Surface Printing Inks are exclusively formulated with main resin and co-resin binders and additives designed to give smooth trouble free printing experience as well as the demanding requirements of end users.

End Use

INKMASTER Woven Sacks Surface Printing Inks are developed especially keeping in mind peculiar printing requirements of PP and HDPE woven sacks market where nail resistance as well as tape test adhesion is mandatory, even when the treatment level of the substrate is not in the range of normally accepted parameters.

Printing Machines & Press Speed

INKMASTER Woven Sacks Surface Printing Inks is tailored to run effortlessly on various versions of Flexo machines.

Surface Printing Substrates

- LDPE
- PP Woven Sacks
- HDPE Woven Sacks

Benefits

- Good Printing Stability.
- High gloss.
- Good Blocking resistance.
- Excellent adhesion on various woven sacks materials.
- Excellent solvent release, enabling medium press speeds to be used.
- Designed to exhibit a low coefficient of friction.
- Does not contain pigments based on heavy metals.
- Does not contain plasticizers banned in certain countries.

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Color Range



Full range of colors is available, which may only occasionally be restricted by specific end use related resistance properties requirements.

White, OPV and Extender Medium:

Product Description	Ink Solid %	Viscosity (Sec)Ford Cup /30°C	L.F.(1-8 Scale)
WOVEN WHITE	35 ± 2	40 ± 5	7
WOVEN MEDIUM	35 ± 2	20 ± 5	N.A

Standard Range:

Product Description	Ink Solid %	Viscosity (Sec)Ford Cup /30°C	L.F.(1-8 Scale)
WOVEN YELLOW 24	45 ± 2	40 ± 10	3-4
WOVEN BLACK SUPER (UV)	38 ± 2	30 ± 10	7
WOVEN BLUE / BLUE 39 (UV)	38 ± 2	35 ± 10	7
WOVEN MAGENTA	35 ± 2	40 ± 10	4-5
WOVEN RED 100	35 ± 2	40 ± 10	4
WOVEN RED	35 ± 2	40 ± 10	4
WOVEN GREEN	35 ± 2	40 ± 10	5
WOVEN ORANGE 53	35 ± 2	35 ± 10	5
WOVEN VIOLET	35 ± 2	40 ± 10	3
WOVEN ROYAL BLUE	35 ± 2	40 ± 10	5
WOVEN FOREST GREEN	35 ± 2	40 ± 10	7
WOVEN BERRY BLUE	35 ± 2	40 ± 10	5

Note: A full range of colours is available as per customer requirement.

Dilution

Solvent and solvent blends used for dilution may need to be adjusted in accordance to printing conditions: Namely, printing process, printing speed, oven capability, and graphics such as solids, lines, half tone and process printing.

To achieve good FINE LETTERS AND LINES RE-PRODUCTIONS, Use Extra Retarder
Depending on printing conditions, the following solvents may be used as retarder or accelerator.

- Accelerator: - IPA / Ethyl Alcohol
- Medium: - Toluene / N Propyl Alcohol
- Retarder: - N-Butanol / Methoxy Propanol

Reducing System	
IPA / Ethyl Alcohol	90
NBA/Methoxy Propanol	10

*It is always better to mix the solvents before adding to the ink.
**Always shake the container vigorously before emptying the inks.

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Printing and Processing



Viscosity adjustment should be started only after the ink is well mixed (in circulation for at least 10 min) and the ink is at room temperature. Viscosity is adjusted by adding solvents slowly in small quantities. (See under "Dilution"). The Actual viscosity used will depend on a number of factors, including print design, press conditions, the machine running speed and the desired colour characteristics.

Shelf Life

The inks and varnishes of this series have under normal conditions a shelf life of at least **6 months** (White) and **12 months** (all colors).

- Normal conditions mean:
- Storage in tightly closed containers.
- Temperature not exceeding 25°C for weeks or 30°C for days.

Please take notice of the following:

The performance results indicated in this literature are only indicative under controlled conditions of laboratory with virgin & standard packaging grade films. Please do not use lower grades or substandard films. **Berger Paints Bangladesh Ltd.** will not take any responsibility for abnormal results on those cases.

Berger Paints Bangladesh Ltd. is responsible only to the tune of replacing the ink consumed in case of any printing related problems clearly assigned to incompatibility with the ink system recommended by **Berger Paints Bangladesh Ltd** for the print job under consideration. If you require any further information please do not hesitate to contact us or visit our website.