

## technical datasheet

**High Opacity Mixing System (HOMS)**

[ Updated: September 2011 ]

**Features**

- High opacity
- Uses the same Mixo Pantone mixing formulations
- Good Wet on Wet printing characteristics.
- Controls ink buildup

**Applications**

- Dark and medium garments
- Direct printing on manual & auto machines
- Soft hand prints

**General Information**

HOMS inks have been formulated as a high opacity high speed direct printing ink designed to give minimal build up on the run.

These inks can be used directly onto darks or printed onto an underlay or base white. HOMS inks come as a balanced ink ready to print straight from the bucket.

**Screen Fabric**

In order to achieve the brilliance of the PANTONE Colours when printed on black fabrics with no white underlay, a 60T (24T metric) monofilament mesh is recommended. However, when printing on light fabrics, meshes from 86-230T (34-92 metric) are suitable.

The HOMS Series plastisols have been printed through meshes ranging from 60-175T (24-70 metric) monofilament with excellent opacity. Colours which are mixed according to MIX-OPAQUE System formulations are designed to be printed through a 60T (24T metric) monofilament mesh on to black 100% cotton fabric, with no white underlay. Specific colour strengths may appear different printed through finer mesh.

**Stencils**

Any direct emulsion or capillary film suitable for plastisol inks

**Reducing**

HOMS Series plastisols are supplied Ready-For-Use. These premium plastisols usually "body up" or achieve a very short body while left at rest in the can. Vigorously mix the inks before using. Because of their lower viscosity it is not recommended to reduce these inks further.

Reducing HOMS Series inks is not recommended as this will reduce the opacity of the finished print. If necessary, reduce with less than 2% of Reducer/ Detackifier. Reducing with Mineral Spirits is not advisable as this may cause the viscosity to escalate the next day.

**Direct Printing****Dark 100% Cotton**

The HOMS Series plastisols have been printed through meshes ranging from 60-175T (24-70 metric) monofilament with excellent opacity. Colours which are mixed according to MIX-OPAQUE System formulations are designed to reproduce specific colours when printed through a 60T (24T metric) monofilament mesh on to black 100% cotton fabric, with no white underlay.

**Curing**

Plastisol inks will not air dry and must be heat cured. Curing can be accomplished with the use of a conveyor dryer, flash curing unit, or simple infrared heater. HOMS Series plastisols will fully cure and withstand repeated washings when the entire ink deposit reaches 300°F (149°C).

**Note:** The oven setting may have to exceed 325°F in order for the entire ink deposit to achieve this temperature.

**Wash-up**

Mineral Spirits or any plastisol screen wash.

**Caution**

Always pre-test for curing, adhesion, crocking, washability and other specific requirements.

**Always test before using in production**

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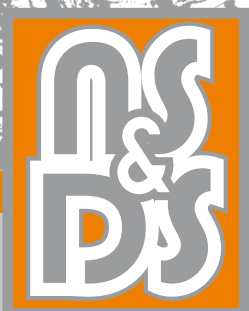
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Disclaimer: This product is manufactured under laboratory supervision from the finest raw materials and we feel will perform exactly as represented. Due to production parameters beyond our control, NSDS does not offer any warranty, expressed or implied, on the use of this product. It is the printer's responsibility to test inks and substrates prior to any production run for suitability in the end use environment.

Keep away from heat and open flame. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. Avoid prolonged breathing of vapour or spray mist. Keep container closed when not in use.



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