



Arpro M-Tec, LLC introduces our **MSLDV-1 Metallic Silver Letdown Varnish**. **MSLDV-1** has been developed as a primary letdown varnish when formulating water-based flexographic metallic silver ink. A balanced formulation providing excellent press performance, low foaming and low gassing when combined with aluminum pigments.

Key features

- Provides formulation versatility.
- Improve your self-life stability by manufacturing finished ink on demand as needed.
- Low VOC's.

Properties

Viscosity	25 – 30 ^{''} / 3 Zahn (70° F)
pH	8.5 ± .3
Heat Resistance	250 °F, 40 psi, ½ sec dwell
Rub / Mar resistance	Good (<i>optimized by using a suitable PE wax emulsions</i>).
Water Resistance	Good - Passes 1 minute H2O drop-test and 50 wet rubs (<i>finger rubs</i>) after fully cured**.

Printing Suggestions

- **Recommended substrate types:** Label stocks (i.e. Krome-Kote, Semi-Gloss, and C1S), SBS board, corrugated paperboard, coated paperboards and calendared or machined UCL.
- **BCM recommendation (based on typical 3:1 ratio):** 3.0 to 4.0 BCM range is the ideal range recommended for fine printing whereas 5.0 to 6.0 BCM ranges is recommended for spot coverage.
- **Improving resistance properties:** Use water-based or UV overprint varnishes that provide high degree of water, rub/mar, and scratch resistance or by incorporating a suitable PE wax emulsion.
- **Wash-up recommendation:** Cleaner solutions typically recommended by anilox manufacturers are suitable.



Do Not

- Do not lower viscosity of the finished ink below 18”/3 Zahn; this will cause loss in transfer properties effecting jetness and gloss.
- Do not store in temperatures exceeding 95° F for extended periods.
- Do not incorporate *MSLDV-1* into desired dispersions without adequate agitation.
- Do not use mixing blades that have high shear when mixing aluminum pigment based inks. This will cause loss of brilliance, pigment fall-out and excessive gassing of the finished ink.

** We recommend allowing the ink to fully cure for 24 hours before testing for resistance properties.

DISCLAIMER – The information compiled and provided on this data sheet are reported as tested under controlled conditions, however it is the buyers responsibility to determine the fitness and suitability of its end use. Arpro M-Tec, LLc reserves the rights to alter any data as a result of ongoing new technical and manufacturing process development for this product

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