

TECHNICAL DATA SHEET

VANCRYL® 937

Acrylic Emulsion for Inks and Coatings

INTRODUCTION

VANCRYL 937 is a medium Tg acrylic emulsion for the graphic arts industry. Excellent gloss can be obtained by utilizing VANCRYL 937 in inks and coatings. Its film formation properties coupled with its rapid water release result in very fast drying. It is suitable for both flexographic and gravure printing on paper substrates.

VANCRYL 937 has excellent compatibility with pigment dispersions and alcohols. Inks formulated with VANCRYL 937 have good transfer, printability, and re-solubility for high quality printing on various paper substrates (including metalized paper) and aluminum foil.

VANCRYL 937 can also be formulated as a high gloss OPV that will very quickly develop water, oil, and scuff resistance.

KEY PERFORMANCE PROPERTIES

- High gloss and holdout on paper substrates, plus good flexibility
- Excellent adhesion on metalized paper and aluminum foil
- Fast drying rate
- Early development of water, oil and scuff resistance
- Excellent compatibility with pigment dispersions and alcohols

TYPICAL PROPERTIES

	VALUE
Non-Volatiles, %	46
pH	8.4
Viscosity, cP	1,750
Density, lbs/gal	8.75
Molecular Weight (Mn)	> 200,000
Flashpoint	Non-combustible
Freeze-Thaw Stability (5 cycles)	Pass
Tg, °C	24
Tmff, °C	19
Acid Number	58

STARTING POINT FORMULATIONS

High Gloss Overprint Varnish	%
VANCRYL 68S (30% solution)	30.0
VANCRYL Wax 35	5.0
VANCRYL 937	60.0
Defoamer	0.2
Water	4.8
pH	8.3
Viscosity, Zahn #2, sec	26
Solids, %	38.5

G/S Cyan Blue Ink Base Grind	%
VANCRYL 68S	29.0
G/S Cyan Blue Pigment	35.0
KNOCKDOWN® 155 Defoamer	0.5
Water	35.5

Finished Ink	%
Base Grind	35.0
VANCRYL 68S	12.0
VANCRYL 937	45.0
VANCRYL Wax 35	3.0
Water	5.0
pH	8.4
Viscosity, Zahn #2, sec	25
Solids, %	40.6

• Worldwide Contact Info: www.allnex.com •

Disclaimer: Allnex Group companies ("Allnex") decline any liability with respect to the use made by anyone of the information contained herein. The information contained herein represents Allnex's best knowledge thereon without constituting any express or implied guarantee or warranty of any kind (including, but not limited to, regarding the accuracy, the completeness or relevance of the data set out herein). Nothing contained herein shall be construed as conferring any license or right under any patent or other intellectual property rights of Allnex or of any third party. The information relating to the products is given for information purposes only. No guarantee or warranty is provided that the product and/or information is adapted for any specific use, performance or result and that product and/or information do not infringe any Allnex and/or third party intellectual property rights. The user should perform its own tests to determine the suitability for a particular purpose. The final choice of use of a product and/or information as well as the investigation of any possible violation of intellectual property rights of Allnex and/or third parties remains the sole responsibility of the user.

TRADEMARK NOTICE: Trademarks indicated with the ®, ™ or * are registered, unregistered or pending trademarks of Allnex Belgium SA or its directly or indirectly affiliated Allnex Group companies.