

ACRYLIC EMULSION FOR INKS AND COATINGS

INTRODUCTION

VANCRYL[®] 927 is a medium Tg acrylic emulsion for the graphic arts industry. Excellent gloss can be obtained by utilizing VANCRYL[®] 927 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[®] 927 has excellent compatibility with pigment dispersions and alcohols. Inks formulated with VANCRYL[®] 927 have good transfer, printability, and resolubility for high quality printing on various paper substrates (including metallized paper) and aluminum foil.

VANCRYL[®] 927 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 metallized paper and aluminum foil
- Fast drying rate
- Early development of water, oil and scuff resistance
- Excellent compatibility with pigment dispersions and alcohols

TYPICAL PROPERTIES

Acid number, mg KOH/g	58
Density, lbs/gal	8.7
Flashpoint	Non-combustible
Freeze-thaw stability (5 cycles)	Pass
Grit rating, ppm	< 100
Molecular weight, Mw	> 200000
Non-volatile matter, %	46
рН	8.3
Tg, °C	24
Tmff, °C	19
Viscosity, 25°C, mPa.s	2000

STARTING POINT FORMULATIONS

High Gloss Overprint Varnish	%
VANCRYL [®] 68 ⁽¹⁾ vehicle (30% Solids)	30.0
Michem [®] Emulsion 32535 ⁽²⁾	5.0
VANCRYL [®] 927	60.0
KNOCKDOWN [®] 155 defoamer	0.2
Water	4.8
рН	8.3
Viscosity (#2 Zahn), s	26
Solids, %	38.5
G/S Cyan Blue Ink Base Grind	%
VANCRYL [®] 68-S	29.0
G/S Cyan blue pigment	35.0
KNOCKDOWN [®] 155 ⁽¹⁾ defoamer	0.5
Water	35.5
Finished Ink	%
Base Grind	35.0
VANCRYL [®] 68-S	12.0
VANCRYL [®] 927	45.0
Michem [®] Emulsion 32535	3.0
Water	5.0
рН	8.4
Viscosity (#2 Zahn), s	25
Solids, %	40.6

(1) Product of allnex

⁽²⁾ Product of Michelman Inc.

version 2.0

Worldwide Contact Info: www.allnex.com

Page 1/1

Disclaimer: allnex Group companies ('allnex') exclude all liability with respect to the use made by anyone of the information contained herein. The information contained herein represents allnex's best knowledge but does not constitute any express or implied guarantee or warranty as to 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 relevance of the products is given for information is suitable for any specific use, performance or result. Any unauthorized use of the product or information may infringe the intellectual property rights of allnex, including its patent rights. The user should perform his/her 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 or flate secrets of allnex and/or third parties remain the sole responsibility of the user. Notice: Trademarks indicated with *, TM or * as well as the allnex name and logo are registered, unregistered or pending trademarks of Allnex Netherlands B.V. or its directly or indirectly affiliated allnex Group companies. ©2019 allnex Group. All Rights Reserved.