VANCRYL® 989

Acrylic Emulsion

June 2017



INTRODUCTION

VANCRYL 989 is a high Tg acrylic emulsion for the graphic arts industry. Excellent gloss and fast drying rates can be obtained by utilizing VANCRYL 989 in inks and coatings. It is suitable for both flexographic and gravure printing on paper substrates.

VANCRYL 989 has excellent compatibility with pigment dispersions and alcohols. Inks formulated with this product have good transfer, printability, and resolubility. Because it is a hard polymer, VANCRYL 989 can also be formulated as a high gloss over print varnish with very good heat, water, oil, and scuff resistance.

KEY PERFORMANCE PROPERTIES

- · High gloss and holdout on paper substrates
- · Fast drying rate
- · Good heat, water, oil, and scuff resistance
- Excellent compatibility with pigment dispersions and alcohols

TYPICAL PROPERTIES	VALUE
Acid number, mg KOH/g	50
Density, lbs/gal	8.8
Flashpoint	Non-combustible
Freeze-thaw stability (5 cycles)	Pass
Grit rating, ppm	<100
Molecular weight, M _w	>200000
Non-volatile matter, %	50
рН	8.6
Tg, ℃	84
Tmff, °C	>70
Viscosity, cP	1100
VOC, wt. %	<0.5

STARTING POINT FORMULATIONS

High Gloss Overprint Varnish	%
VANCRYL 68-S ⁽¹⁾ (30% solution)	32.0
Michem® Emulsion 32535 ⁽²⁾	5.0
VANCRYL 989	58.0
KNOCKDOWN® 155 ⁽¹⁾ defoamer	0.2
Water	4.8
рН	8.3
Viscosity, Zahn #2, sec	28
Solids, %	40.5
G/S Cyan Blue Ink Base Grind	%
VANCRYL 68-S	29.0
G/S Cyan blue pigment	35.0
KNOCKDOWN 155 defoamer	0.5
Water	35.5
Finished Ink	%
Base Grind	35.0
VANCRYL 68-S	12.0
VANCRYL 989	44.5
Michem Emulsion 32535	3.5
Water	5.0
рН	8.4
#2 Zahn Viscosity, sec	5
Solids, %	42.5

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 and/or information patrantee or warranty is provided that the product and/or information is adapted for any specific use, performation and/or information do not infringe any allnex and/or third party intellectual property 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 to fallnex and/or third parties remains the sole responsibility of the user.

Notice: Trademarks indicated with **, *** a well as the allnex name and logo are registered, unregistered or pending trademarks of Allnex IP s.à.r.l. or its directly or indirectly affiliated allnex Group companies.

2017 allnex Group. All Rights Reserved.VANCRYL 989 - TDS 6/20/2017

⁽¹⁾ Product of allnex

⁽²⁾ Product of Michelman Inc.