

VANCRYL® 68

Solid Acrylic Resin for Inks and Coatings

June 2017



INTRODUCTION

VANCRYL 68 is a solid acrylic resin that provides outstanding pigment wetting along with the viscosity stability needed for aqueous gravure and flexographic inks. The transfer properties and hold-out characteristics of inks prepared with VANCRYL 68 are excellent.

In coatings, VANCRYL 68 provides high gloss, scuff resistance, and hardness. VANCRYL 68 is compatible with most acrylic vehicles, and other vehicles such as maleic resins.

VANCRYL 68 is effective as a protective colloid in the production of styrene-acrylic copolymer emulsions.

KEY PERFORMANCE PROPERTIES

- Outstanding pigment wetting
- Excellent transfer
- Good hold-out
- Low foam
- High gloss
- Compatible with most vehicles

TYPICAL PROPERTIES

	VALUE
Acid number, mg KOH/g	165
Appearance	Solid flake
Color, Gardner, solution	<2
Molecular Weight, M _w	20000
Non-volatile matter, %	>99.0
Softening Point, °C	130
T _g , °C	80
Viscosity, 30% solids ammonium salt solution, cP	2000
Viscosity, 30% solids ethanol solution, cP	550
VOC, wt. %	<1.0

STARTING POINT FORMULATIONS

Typical Vehicle Formula (30% Solids)	%
VANCRYL 68 resin	30.0
Aqua ammonia (28%)	7.0
Water	63.0

pH	8.0 - 8.5
Viscosity, cP	1500 - 3000
Appearance	Clear solution

Flexographic Ink Base Grind	%
Phthalo blue pigment	32.0
VANCRYL 68 vehicle (30% Solids)	32.0
Water	35.0
KNOCKDOWN® 155 ⁽¹⁾ defoamer	1.0

Finished Ink	%
Base Grind	29.0
VANCRYL 989 emulsion	58.0
Michem® Emulsion 32535 ⁽²⁾	8.0
Water	4.0
KNOCKDOWN 155 defoamer	0.7
Monoethanolamine	0.3

pH	8.6
Viscosity (#2 Zahn), sec	33

High Gloss Coating	%
VANCRYL 989 emulsion	60.0
VANCRYL 68 vehicle (30% Solids)	25.0
Michem Emulsion 32535	5.0
KNOCKDOWN 155 defoamer	1.0
Water	9.0

pH	8.5
Viscosity (#2 Zahn), sec	30

(1) Product of allnex

(2) Product of Michelman Inc.

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