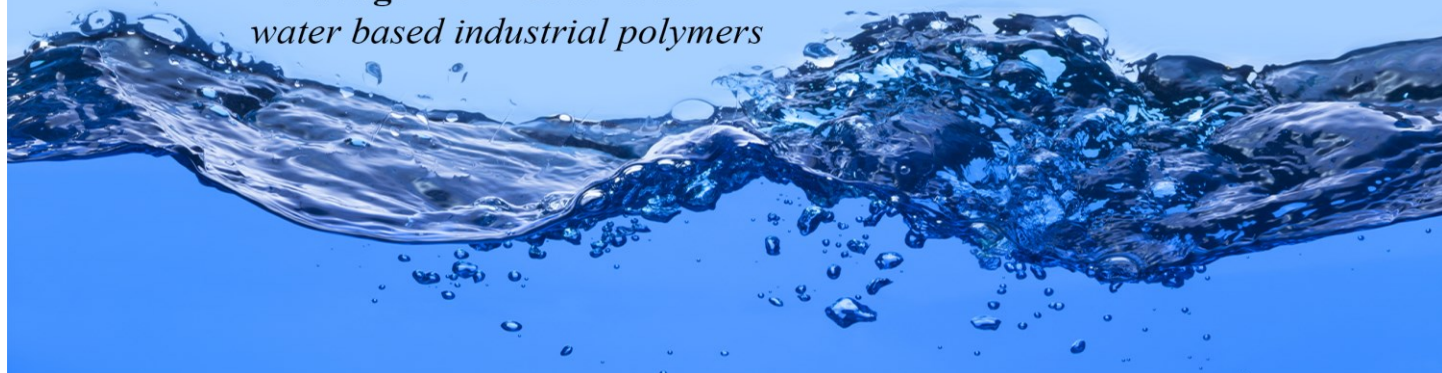




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*water based industrial polymers*



## **Ottopol 25 Series 25-50E 25-30 Technical Data sheet**

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### *Product Overview*

#### Alkali Soluble Acrylic Resins

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#### Three Grades to Suit Individual Preferences

The Ottopol 25 Series are specifically designed for use as a grinding and let down vehicle for water based roto-gravure and flexographic inks. They provide high gloss and excellent press stability. Ink and coating makers will benefit from the versatility of the Ottopol 25 Series as a sole binder or component of high gloss inks and over lay varnishes. These polymers are derived from the same monomer composition, the dry resin is identical throughout the series. The three variations will satisfy customer needs for specific applications.

#### EXCELLENT ADHESION TO SUBSTRATES

On PVC, Polyester, Polystyrene, and Coated Cellophane, this series of polymers provide excellent adhesion.

#### SUPERIOR PRINTING QUALITIES

Ottopol 25 Series' unique characteristics impart excellent flow and leveling to inks and coatings, making gravure print quality possible that could only be attained with solvent systems in the past. The viscosity curve of this resin is relatively flat and shows a very low degree of thixotropy. The result is superior printing quality.

#### GOOD PIGMENT WETTING

High industry standards are met when Ottopol 25 Series is used as a dispersion stabilizer, or purely for wetting purposes. Optimum color development is achieved with a large variety of pigments.

#### EXCELLENT GLOSS

The rheological properties of Ottopol 25 solutions contribute to high gloss, while the use of maximum amounts of alcohol will increase the gloss of this resin.

## PRODUCT SPECIFICATION

	<b>25-50E</b>	<b>25-30</b>
Description	Acrylic Emulsion	Acrylic Resin Solution
Appearance	Milky White	Clear, Viscous
Solids	49.0 – 51.0%	29.0 – 31.0%
Viscosity	250 – 2000 cps.	2000 – 4000 cps
pH	6.5 – 7.5	8.0 – 9.0
Specific Gravity	1.087	1.075
Weight/Gallon	8.91 lbs.	8.96 lbs.
Flash Point	None	None
Freeze Thaw Stability	None	5 Cycles
FDA Status	175.300	175.300
Tg	43	43

### OTTOPOL 25-50E STARTING FORMULATIONS

Ottopol 25-50E must be converted to a solution. Ammonia @ 28% concentration will yield the fastest drying speed. Organic amines will delay the drying process and may be used if applicable. The point of neutralization can be calculated, given the acid number of 130. A varnish containing 30% dry resin will have an approximate viscosity of 4,000 cps (Ottopol 25-30). Higher solids, increased drying speed and lower viscosity can be achieved by substituting Isopropyl Alcohol for water. The resulting viscosity will be 400 cps @ 40% Solids.

#### **30% SOLIDS BASE VARNISH**

<b>Materials</b>	<b>Parts by Weight</b>
Ottopol 25-50E	60.0
Water	35.2
Aqua Ammonia 28%	<u>4.8</u>
	100.0

#### **40% SOLIDS BASE VARNISH**

<b>Materials</b>	<b>Parts by Weight</b>
Ottopol 25-50E	80.0
Isopropyl Alcohol	14.4
Aqua Ammonia 28%	<u>5.6</u>
	100.0

**Procedure:** Dilute 25-50E and mix thoroughly before adding ammonia.

### OTTOPOL 25-30 STARTING FORMULATIONS

#### **Pigment Concentrates**

<b>Materials</b>	<b>Parts by Weight</b>	
	<b>-1</b>	<b>-2</b>
Ottopol 25-30	29	19
Water	--	10
Organic Presscake 50%	70	--
Inorganic Pigment	--	70
Defoamer	<u>1</u>	<u>1</u>
	100	100

**Procedure:** Same as above (Flexographic Inks).

#### **Flexographic & Gravure Inks**

<b>Materials</b>	<b>Parts by Weight</b>	
	<b>-1</b>	<b>-2</b>
Ottopol 25-30	43	40
Isopropyl Alcohol	14	10
Ottopol Wax 35	5	5
Aerosol OT 75	1	1
Pigment Concentrate	20	36
Water	<u>17</u>	<u>9</u>
	100	100

**Procedure:** Same as above (Flexographic & Gravure Inks)