



Gellner Industrial, LLC
105 Tide Road, Hometown, PA 18252
PHONE: 570-668-8800
www.gellnerindustrial.com
water based industrial polymers

Ottopol K-362 Technical Data sheet

Product Overview

OTTOPOL CATIONIC RESIN:

INSOLUBLE IN ALKALI

Ottopol K-21-30 and K-362 are Low molecular weight cationic acrylic resin solutions. It is suitable for use as a grinding vehicle for organic and inorganic pigments. Pigment concentrates can be let down with these resins to produce printing inks and coatings. A clear coating or overlay varnish may be formulated as well.

ALKALI RESISTANCE

The dry resin is impermeable to alkali without the use of crosslinking agents. Inks and overlay varnishes for soap boxes and household paper towels will not be affected by the high pH of the detergent cleaner used with the paper towels.

ADHESION TO SUBSTRATES

Their positive charge allows inks and coatings to have exceptionally good adhesion to plastic films: Mylar, PVC, and polystyrene. Adhesion to foil and other metallic surfaces is excellent.

DYE INKS

Both products are effective solubilizers for oil soluble dyes and are compatible with basic dyes.

Ottopol K-362 is a resin solution in water.

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PRODUCT SPECIFICATIONS K-362 or K-21-30

Description	Cationic Acrylic Resin Solution in Water
Appearance	Slightly Hazy Solution
Solids.....	29-31%
Viscosity	200-400 cps
pH.....	5.0-6.0
Specific Gravity	1.05
Weight/Gallon.....	8.75
Glass Transition Temperature.....	43
Flash Point	None
Freeze Thaw Stability	5 Cycles
FDA Status.....	USDA Approved

OTTOPOL K-362 or K-21-30 STARTING FORMULATIONS

PIGMENT CONCENTRATES

Materials	Parts by Weight		
	-1	-2	-3
Ottopol K-362 or K-21-30	40	40	31
Water	30	30	19
Barium Lithol Red 20-4210*	30	-	-
Phthalocyanin	-	30	-
Titanium Dioxide	-	-	50
	<u>100</u>	<u>100</u>	<u>100</u>

Procedure: Place all components into a mill and grind until the appropriate gauge reading is attained.

**PIGMENT CONCENTRATES
USING PRESSCAKES**

Materials	Parts by Weight	
	-1	-2
Ottopol K-362	40	30
Presscake Organic 50%**	60	-
Presscake Inorganic 50%**	-	70
	<u>100</u>	<u>100</u>

Procedure:
Place all components into a container equipped with a high speed stirrer. Stir until desired gauge reading is attained.

FLEXOGRAPHIC INKS

Materials	Parts by Weight		
	-1	-2	-3
Pigment Concentrate No. 1	40	-	-
Pigment Concentrate No. 2	-	40	-
Pigment Concentrate No. 3	-	-	50
Ottopol K-362 or K-21-30	59	59	49
Perenol S-5***	<u>1</u>	<u>1</u>	<u>1</u>
	100	100	100

Procedure: Place all components into a mixing tank and stir until homogeneous.

The above ink will have a viscosity of 500-800 cps and can be diluted with water at press site to desired viscosity.

Pigment concentrates derived of presscakes can be used in the above formulations by following the respective numbers.

Reference:

- * American Cyanamid
- ** Hilton Davis or Sun Chemical