

Ottopol K-23 Technical Data sheet

Cationic Emulsion

Ottopol K-23 is an alkali resistant cationic acrylic copolymer emulsion. It is designed for use as a grinding and letdown vehicle for waterbased flexographic and rotogravure inks. It is also suitable for use as an overprint varnish. The emulsion characteristics provide higher solids and better gloss.

Alkali Resistance

Unique to the graphic arts industry. Ottopol K-23 has excellent alkali and detergent resistance. Inks and coatings for soap boxes and paper towels will not be effected by the high pH content or detergent cleaners used with towels.

Adhesion to Difficult Substrates

Positive charge allows inks and coatings made with Ottopol K-23 to have exceptionally good adhesion to plastic films; Polyethylene, PVC, Polyester, and Polystyrene.

All finished inks and coatings perform best at a pH of 4.8 - 6.0. Acetic or formic acid is used for pH adjustment. Do not use Ottopol K-23 with any anionic water based systems. Additives with a pH above seven will result in the precipitation of the dispersed resin.

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PRODUCT SPECIFICATIONS

OTTOPOL K-23

STARTING FORMULATIONS

FLEXOGRAPHIC INKS

Materials	Parts by Weight		
	-1	-2	-3
Ottopol K-21-30	20	20	15
Water	14	14	14
Ba-Li Red	15	-	-
Phthalo Blue	-	15	-
TiO2	-	-	35
Ottopol K-23	50	50	35
Slip Additive	<u>1</u>	_1	_1
	100	100	100

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

ALKALI RESISTANT OVERPRINT VARNISH

Materials	Parts by Weight	
	-1	-2
Ottopol K-23	63	60
Ottopol K-21-30	30	30
Water	6	3
Cationic Wax Emulsion	-	7
Slip Additive	_1	
	100	100

Procedure: Place all components in the order listed into a mix tank. Stir while adding the individual components. Continue stirring until the finished product is homogeneous.

Important! Adjust pH of finished inks and coatings to 4.8 - 6.0 using acetic or formic acid.