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water based industrial polymers



Ottopol KO Technical Data sheet

Product Specifications

Description--Cationic Styrene/Acrylic Emulsion	Appearance ----- Translucent Emulsion
Solids -----42.0 - 44.0%	Specific Gravity----- 1.059
pH -----4.5 – 5.5	Weight/Gallon ----- 8.83
Viscosity ----- 200 - 800 cps	Freeze Thaw Stability----- 5 Cycles
Flash Point ----- Same as Water	Glass Transition Temperature -----0 Degrees C

Ottopol KO Polymer's Attributes

- ✓ **Blocks Tannin Oils:** Tannin oils from wood, such as redwood, red cedar and other species are easily blocked with *Ottopol KO*.
 - ✓ **Blocks Stains on Drywall:** Hard to block washable markers are effortlessly blocked, as well as other types of markers including felt tip markers. Lipstick and Vaseline will also be blocked with this polymer.
 - ✓ **Blocks Water Stains from Concrete Blocks in Basements:** Damp basements are a common problem, particularly here in the United States. *Ottopol KO* forms a water proof barrier under these wet conditions, eliminating unsightly stains on basement walls.
 - ✓ **Blocks Fungal Growth in Damp or Humid Environments:** High humidity environments cause the growth of mildew. The cationic nature of *Ottopol KO* forms natural barrier of the growth of fungi.
 - ✓ **Excellent Adhesion:** Ottopol KO and products made from this polymer display excellent adhesion to a variety of surfaces.
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Starting Point Formula for Stain Blocking Primer

Grind "A"

1) Water-----	19.80	1.75%		
2) Ottopol KO-----	200.00	17.68%	Polymer	Gellner Industrial, LLC
3) BYK 022-----	2.50	0.22%	Defoamer	BYK
4) Minex 4-----	200.00	17.68%	Filler	The Cary Company
5) Kronos 2310-----	200.00	17.68%	TiO2	Kronos
6) Zinc Omadine-----	<u>3.38</u>	0.30%	Biocide	Lonza
	625.68			

Procedure: Add components 1 through 6 in the order listed to a high shear disperser while mixing. Allow to mix at high shear for 15 - 30 minutes after all ingredients are charged to mixing vessel. Grind temperature should be between 70 and 80 C. If grind goes over 90 C you may experience precipitation of the resin.

Letdown "B"

1) Ottopol KO-----	377.20	33.34%	Polymer	Gellner Industrial, LLC
2) Water-----	112.00	9.90%		
3) BYK 022-----	2.50	0.22%	Defoamer	BYK
4) BYK-3450-----	2.64	0.23%	Wetting Agent	BYK
5) Rheobyk H6500VF-----	<u>11.30</u>	1.00%	Rheology Modifier	BYK
	505.64			

Procedure: Reduce mixer speed in grind "A" to low shear and add components 1 through 5 in the order listed.

Total Charge: ----- 1,131.32
Viscosity is approximately----- 95 KU
Theoretical Solids: -----58.5%
Recoats with top coat----- One Hour
VOC Level:-----Primer Formula is 21.6 g/l (Acetic Acid in Polymer)

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