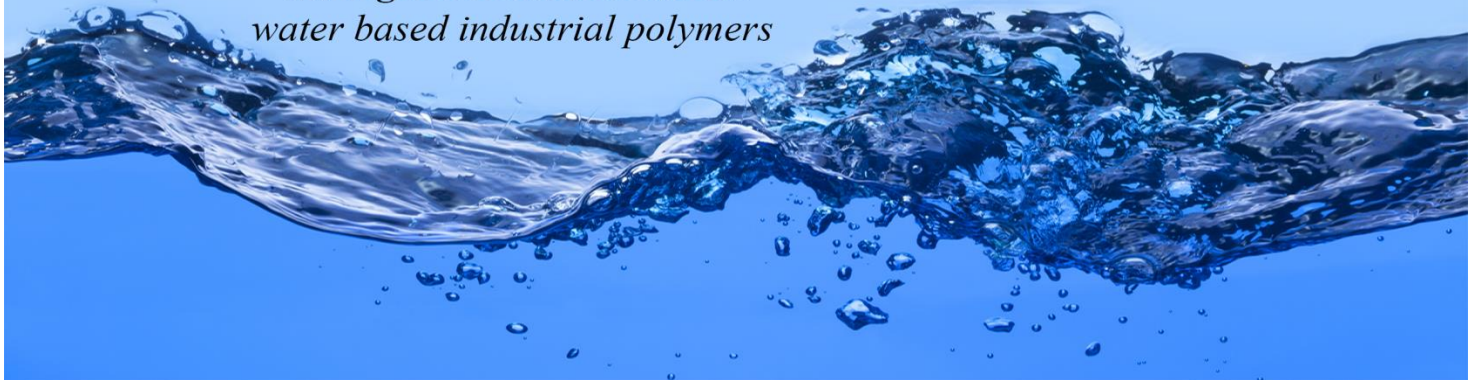




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water based industrial polymers



Experimental Ottopol KX-101 Technical Data sheet

Product Specifications

Description-----	Hydroxyl Functional Cationic Acrylic Emulsion Polymer	Appearance -----	Translucent Emulsion
Solids -----	37.0 - 39.0%	Specific Gravity -----	1.0466
pH-----	5.0 - 6.0	Weight/Gallon -----	8.73
Viscosity-----	500-1,500 cps	Freeze Thaw Stability -	Keep from Freezing
Flash Point-----	Same as Water	USDA Status-----	Yes
Glass Transition Temperature-----	32° C		

Product Description

Experimental Ottopol KX-101 is a Hydroxyl Functional Cationic Acrylic Emulsion Polymer. This polymer will crosslink at room temperature with polyisocyanates and epoxy silanes. The fastest and most resistant coating can be formulated with the combination of a polyisocyanate and an epoxy silane. We recommend a maximum of 11.5% epoxy silane and 11.5% polyisocyanate based on solids. The ambient curing happens very quickly, in 15 minutes the film will have water resistance. Allowing the film to cure for four hours will result in a film that has over 100 double rubs acetone resistance. Detergents and cleaners will not remove this film. Water resistance is excellent. The dried film will also resist staining.

Starting Point Formulation "A" Two Component system

Part A

Exp. Ottopol KX-101 -----	67.1
Water-----	23.8
Masurf FS-2800* -----	0.1

In 15 min. ambient cure, the film will have excellent water resistance

Part B

Dow Corning Z-6040** -----	4.5
Bayhydur 302*** -----	4.5

Mix components in the order listed for 30 minutes. Resulting viscosity will be 15-20 seconds #2 Zahn Cup. The Masurf FS-2800 is a fluorocarbon wetting agent and is quite effective with this system.

*Mason Chemical Company (800)362-1855

** Dow Corning (989) 496-6000

*** Bayer Material Science (412) 777-2000

Starting Point Formulation "B" Two Component system, Isocyanate Free

Part A

Exp. Ottopol KX-101 -----67.1

Water-----23.8

Masurf FS-2800* ----- 0.1

Part B

Dow Corning Z-6040** ----- 9.0

Mix components in the order listed for 30 minutes. Resulting viscosity will be 15-20 seconds #2 Zahn Cup. The Masurf FS-2800 is a fluorocarbon wetting agent and is quite effective with this system.

*Mason Chemical Company (800)362-1855

** Dow Corning (989) 496-6000

This formulation will have a 24 hour pot life. The cure cycle is 24-72 hours.