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water based industrial polymers



Ottopol K-12T Technical Data sheet

Product Specifications

Description-----	Cationic Acrylic Emulsion	Appearance -----	Translucent Emulsion
Solids -----	42.0 - 44.0%	Specific Gravity -----	1.0731
pH -----	4.5 – 5.5	Weight/Gallon -----	8.95
Viscosity -----	200 - 800 cps	Freeze Thaw Stability-----	Keep from Freezing
Flash Point -----	Same as Water	FDA Status -----	None
Glass Transition Temperature-----	0 Degrees C	USDA Status -----	Yes

Ottopol K-12T - Polymer for Stain Blocking Primer

Gellner offers Ottopol K12T as a new binder technology for water borne stain blocking primers. A major cause of staining comes from water soluble chromophoric compounds like tannin. Until now water was the enemy for stopping the tannin from migrating to the surface and causing unsightly stains. The amount and the composition of tannin in wood are not uniform. The species of the tree and region that it was grown in will designate the amount of penta-meta-digalloylglucoside that is contained in the wood. Penta-meta-digalloylglucoside is a derivative of gallic acid, a colorless solution that turns brown when it comes in contact with air. When ordinary or so called water borne stain blocking primers solubilize the tannin, they migrate to the surface and cause yellow or brown stains. Ottopol K-12T forms a resistant barrier to water soluble tannins and prevents topcoats from staining and retarded drying. Our research chemists have discovered a polymer backbone that is resistant to tannin and nicotine stains. It forms an impenetrable barrier that out performs all other attempts of solving the bleeding of stains. A compliant, 21 grams/liter VOC primer can be formulated with Ottopol K-12T

Starting Point Formula for Stain Blocking Primer

Part A

Ottopol K-12T -----	200.0
Water -----	20.0
Minex 4-----	200.0
Defoamer BYK 022-----	2.5
TiO2 -----	200.0

Mix in high shear disperser until homogeneous (30 Min).

Part B

Ottopol K-12T -----	377.2
Water -----	112.0
Optiflo H370 from Southern Clay Products -----	20.0
Defoamer BYK 022-----	2.5

Add each component under agitation to Part A