



Industrial Specialties

POLYOX™ Thickeners for Paint and Varnish Removers Water-Soluble Resins and Coagulants



POLYOX™ Water Soluble Resins and Coagulants Improve the Viscosity and Rheology of Paint and Varnish Removers

When organic solvents are used in paint and varnish removers, the resulting low viscosity formulations will readily drain off sloping or vertical surfaces.

POLYOX™ resins are soluble in many of the organic solvents used in paint removers and can be used to provide a range of improved rheological properties. Formulations that are thickened with very high-molecular weight products may be shear-thinning. This tendency vanishes when lower viscosity POLYOX™ grades are used as shown in the table at right.

Formulators need not be concerned about the thickened solvent causing string formation when lower molecular weight POLYOX™ grades like POLYOX™ WSR N-80 or POLYOX™ WSR N-750 are used in formulations such as the one below:

Component	Amount
POLYOX™ WSR N-750	3 wt.-%
Methylene chloride	97 wt.-%

POLYOX, wt-%	Viscosity in methylene chloride /mPas	Viscosity test method, Brookfield, Spindle, Speed
Coagulant, 0.5%	3,050	RVF, No. 1, 2 rpm
Coagulant, 0.5%	1,250	LVT, No. 2, 12 rpm
Coagulant, 0.5%	500	RVF, No. 1, 2 rpm
WSR-301, 0.5%	1,800	RVF, No. 1, 2 rpm
WSR-205, 2.0%	460	LVT, No. 2, 30 rpm
WSR N-3000, 3.0%	2,600	RVF, No. 1, 2 rpm
WSR N-3000, 3.0%	1,870	LVT, No. 2, 12 rpm
WSR N-3000, 2.0%	375	LVT, No. 2, 30 rpm
WSR N-750, 3.0%	850	RVF, No. 1, 2 rpm
WSR N-750, 3.0%	600	LVT, No. 2, 60 rpm
WSR N-80, 5.0%	325	LVT, No. 2, 30 rpm
WSR N-80, 3.0%	37	LVT, No. 1, 60 rpm



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