



HOUSEHOLD, INDUSTRIAL & INSTITUTIONAL CLEANING

WYPOL™ acrylic based polymers designed to aid the HI&I formulator

Prime Formulations Ltd provides a range of acrylic based polymers designed to aid the HI&I formulator.

Dispersants

WYPOL™ acrylic polymers have both a tailored composition and a targeted molecular weight structure to enhance primary and secondary detergency and to inhibit scale deposition. The effect is three-fold:

- Threshold inhibition
- Crystal distortion
- Anti deposition

WYPOL™ acrylic polymers adsorb onto the surface of the cleaning item, whether that be a surface of an insoluble or partially soluble salt or the fabric of textiles during the washing cycle. They are effective at complexing water hardness and heavy metal ions, removing them from the wash water and thus preventing further interference with the process.

WYPOL™ acrylic polymers inhibit the effects of water hardness and slow the growth of the seed crystal preventing them from being visible until a much higher concentration is present. This is the “threshold effect”. As WYPOL™ acrylic polymers will act as a dispersant they prevent the deposition of the scale onto surfaces protecting both machinery and the item being cleaned. Products that target anti-redeposition employ both electrostatic and steric forces to prevent adsorption onto the surface of the fabric and repel emulsified oils and dirt.

WYPOL™ acrylic polymers are suitable for use in laundry detergents, dishwasher products, low pH detergents and cleaners, as well as surfactant concentrates and high pH cleaners.

WYPOL™ acrylic polymers will protect carboxylated surfactants, whitening and bleaching agents from deactivation by polyvalent ions.

POLYACRYLICS				
Product	Solids	Molecular Weight	pH	Application
WYPOL™ HN43	48%	VL	4	General purpose antiscalent, dispersant
WYPOL™ S43	42%	VL	7	General purpose antiscalent, dispersant
WYPOL™ HN44	50%	M	4	General purpose antiscalent, dispersant
WYPOL™ S44	45%	M	7	General purpose antiscalent, dispersant, anti deposition

ACRYLIC/MALEIC COPOLYMER				
Product	Solids	Molecular Weight	pH	Application
WYPOL™ S71	40%	H	7	General purpose antiscalent, dispersant, anti deposition, slurry fluidiser

SULPHONATED ACRYLIC COPOLYMERS				
Product	Solids	Molecular Weight	pH	Application
WYPOL™ HS60	37%	M	5	General purpose antiscalent, dispersant, zinc/phosphate/iron stabilisation
WYPOL™ HS61	45%	M	4	General purpose antiscalent, dispersant, zinc/phosphate/iron stabilisation
WYPOL™ HS62	43%	M	4	General purpose antiscalent, dispersant, zinc/phosphate/iron stabilisation



Rheology Modifiers

WYPOL™ range of acrylic thickeners will hydrate when mixed with water stabilising emulsions and dispersions or improve the look and feel of the formulation. Their pseudoplastic rheology makes them ideal for systems where flow is not required. These properties make them suitable for “vertical cling” formulations.

WYPOL™ range of acrylic thickeners are supplied as either alkali swellable emulsions (ASE's) or as oil dispersed polymers (LDP's). Liquid dispersion polymers are particularly effective in fabric softener formulations providing the desired viscosity and pour attributes and its cationic nature improves fragrance retention on fabrics.

RHEOLOGY MODIFIERS					
Product	Description	Ionicity	Salt Tolerance	Surfactant Compatibility	pH Range
WYPOL™ AS40	Alkali swellable emulsion with good thixotropy	Anionic	Low	Low	7-10
WYPOL™ AS45	Alkali swellable emulsion with good thixotropy	Anionic	Low	Low	7-10
WYPOL™ MEM15	Alkali swellable emulsion with good thixotropy	Anionic	Moderate	Low	7-11
WYPOL™ 213	Liquid dispersion polymer with good thixotropy	Cationic	Moderate	Good	<6





	WYPOL™ HN43	WYPOL™ S43	WYPOL™ HN44	WYPOL™ S44	WYPOL™ S71	WYPOL™ HS60	WYPOL™ HS61	WYPOL™ HS62	WYPOL™ AS40	WYPOL™ AS45	WYPOL™ EM15	WYPOL™ 213
Dishwashing	•	•	•	•	•	•	•	•				
Fabric care	•	•	•	•	•	•	•	•	•	•	•	•
Household cleaner	•	•	•	•	•	•	•	•	•	•	•	
Industrial & institutional cleaning	•	•	•	•	•	•	•	•	•	•	•	
Antiscalent	•	•	•	•	•	•	•	•				
Chelating	•	•	•	•	•	•	•	•				
Dispersant	•	•	•	•	•	•	•	•				
Rheology control									•	•	•	•
Anti deposition			•	•	•	•	•	•				





FORMULATIONS

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Warranty

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The information provided does not replace the need for the user to make a risk assessment of use of this product in the user's own processes and workplace.