

K-STAY[®] 501

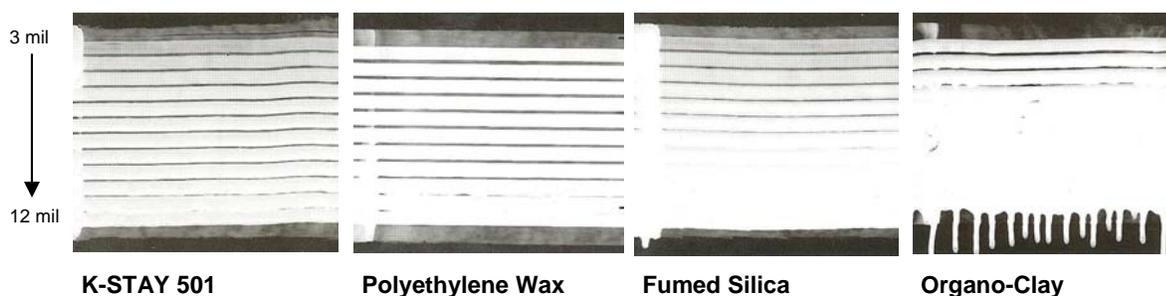
Rheology Modifier for Non-aqueous Pigmented Systems

K-STAY 501 is designed to prevent sag and settling without affecting gloss in non-aqueous pigmented systems. It is effective in both ambient and high temperature systems. Supplied as a pourable fluid, it can be used in high gloss applications with little or no effect on the final gloss of the system.



K-STAY 501's pseudoplastic rheology increases low shear viscosity to prevent settling and sagging, but maintains low viscosity during application. Unlike most thixotropic additives that give inconsistent properties in dip coatings, K-STAY will impart the same viscosities independent of previous shear profiles.

K-STAY 501 Performance



In the photos above and the table below, K-STAY 501 was evaluated against other common rheology modifiers in a polyester melamine bake coating at their recommended use levels. The K-STAY 501 modified coating had the best gloss and best sag resistance.

Performance Criteria	K-STAY 501	Organoclay	Oxidized Polyethylene	Fumed Silica
Use level, %	1	1	2	1
Sag, 350°C	6 mil	3 mil	1.5 mil	1.5 mil
60° Gloss	93	44	88	47
Brookfield Viscosity - 6 rpm, cPs	1800	440	360	940
Brookfield Viscosity - 60 rpm, cPs	530	250	270	370
Shear Thinning Index - STI 6/60	3.4	1.8	1.3	2.5



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Applications - Systems

K-STAY 501 is effective in a broad range of solvent borne systems including:

Polyester/Melamine
Acrylic/Melamine
Alkyd/Melamine
2K Urethanes
Epoxies

Typical Use Level

0.5 to 3.0% as supplied on total formula weight

Typical Properties

Appearance	Light brown colored liquid
% Active	50
Weight per Gallon, 25°C	9.0 lbs.

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