

Falamine Plus

Falamine Plus:

- ✓ Is an effective pH stabilizer for latex paints and coatings
- ✓ Has exceptional long term pH stability
- ✓ Has excellent colour stability and non-yellowing properties,
- ✓ Promotes good colourant acceptance
- ✓ Maintains film properties i.e. scrub resistance
- ✓ Is an equivalent replacement by weight for the leading competitive pH modifier

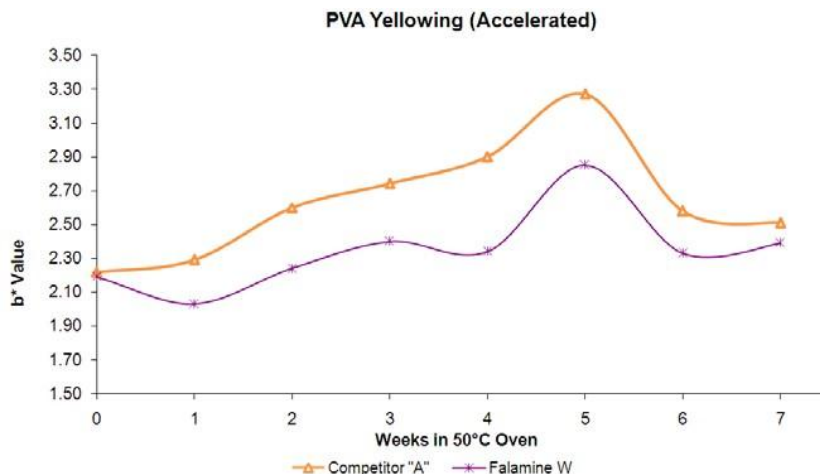
Tests confirm that Falamine Plus gives similar initial pH values when added to a coating formulation on an equivalent weight basis versus the leading competitor. Additional results for Falamine Plus show comparable results for pH stability. Results for scrub resistance are similar and in some cases better for paints with Falamine Plus. There is excellent yellowing resistance in all the latex binders tested. Tests were conducted using a variety of latex binders including polyvinyl acetate, styrene acrylic, veova, vinyl acrylic and acrylic latexes.

A. Polyvinyl Acetate

Table1: Test result for polyvinyl acetate latex

	Falamine Plus	Competitor "A"
Amt. of pH adjustor used (g/L of paint):	0.30	0.31
Initial pH	8.94	8.90
pH Stability (8 weeks @ 50°C):	8.20	8.04
Yellowing (change in b value):	0.23	0.35
Scrub Resistance (% film loss):	1.93	1.95

Fig.1: Falamine Plus shows better resistance to yellowing during accelerated testing



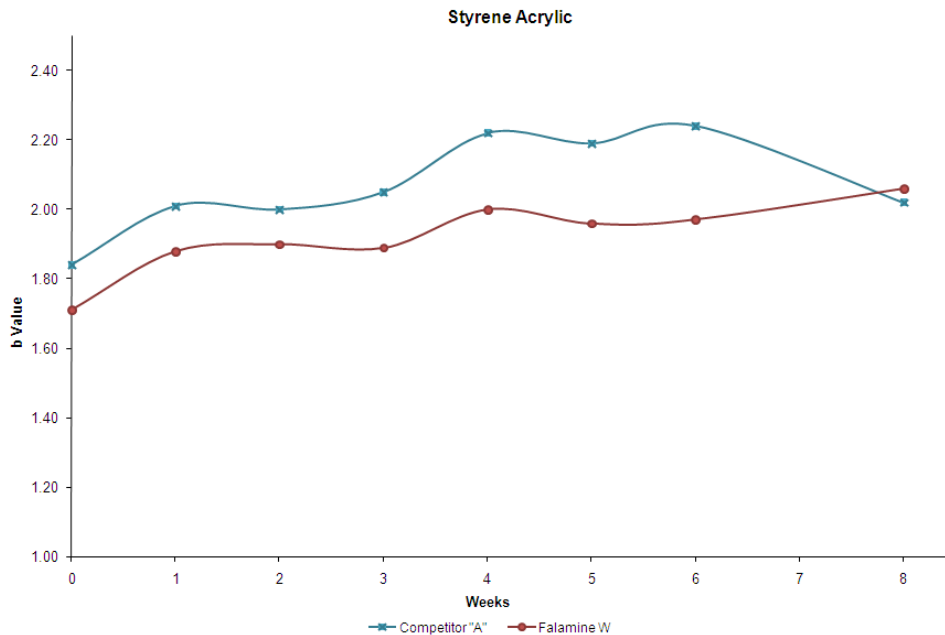
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B. Styrene Acrylic

Table2: Test results for styrene acrylic latex

	Falamine Plus	Competitor A
Amt. of pH adjustor used (g/l of paint):	0.17	0.16
Initial pH	8.90	8.96
pH Stability (8 weeks @ 50°C):	8.10	8.00
Yellowing (change in b value):	0.31	0.43
Scrub Resistance (% film loss):	1.30	1.90

Fig.3: Styrene Acrylic - Falamine Plus shows better yellowing resistance..



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C. Vinyl Acrylic

Table 3: Test results for vinyl acrylic latex paint

	Falamine Plus	Competitor A
Amt. of pH adjustor used (g/L of paint):	0.13	0.15
Initial pH	8.92	8.90
pH Stability (8 weeks @ 50°C):	8.43	8.47
Yellowing (change in b value):	0.32	0.47
Scrub Resistance (% film loss):	9.10	9.40

D. VeoVa

Table 4: Test results for veova latex

	Falamine Plus	Competitor "A"
Amt. of pH adjustor used (g/L of paint):	0.12	0.13
Initial pH	8.85	8.86
pH Stability (8 weeks @ 50°C):	8.65	8.46
Yellowing (change in b value):	0.12	0.11
Scrub Resistance (% film loss):	4.72	4.70

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Starting formulation for Vinyl Acrylic Latex Paint with Falamine Plus

Formula: MM2009-008

Water Based Flat Paint –Vinyl Acrylic Latex (Falamine plus)

Description	Weight (%)
Water	16.14
Proxel GXL	0.17
Bermocoll E431FQ	0.17
Orotan/Tamol 1124	0.42
Triton CF-10	0.13
Falden 22 Defoamer	0.07
Sift in and disperse to 5H	
Satintone 5HB	7.09
DuPont R902 Titanium Dioxide	17.74
Minex 4	14.19
Grind to Hegman 3	
Letdown:	
Water	18.58
Propylene Glycol	1.22
Falden 22 Defoamer	0.27
Texanol	1.11
Vinyl Acrylic Ucar 379	19.25
Blend the following together	
Acrysol TT-615	0.64
Water	1.57
Then add:	
Falamine Plus	0.17
Water	1.06

Physical Properties

Property Description	Value
Total Weight (%)	100.00
Specific Gravity (SG)	1.391
% Weight Solids	50.79
% Volume Solids	31.58
% Weight Pigment	39.02
% Volume Pigment	17.50
Pigment: Binder Ratio	3.316
PVC Ratio	55.43

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