



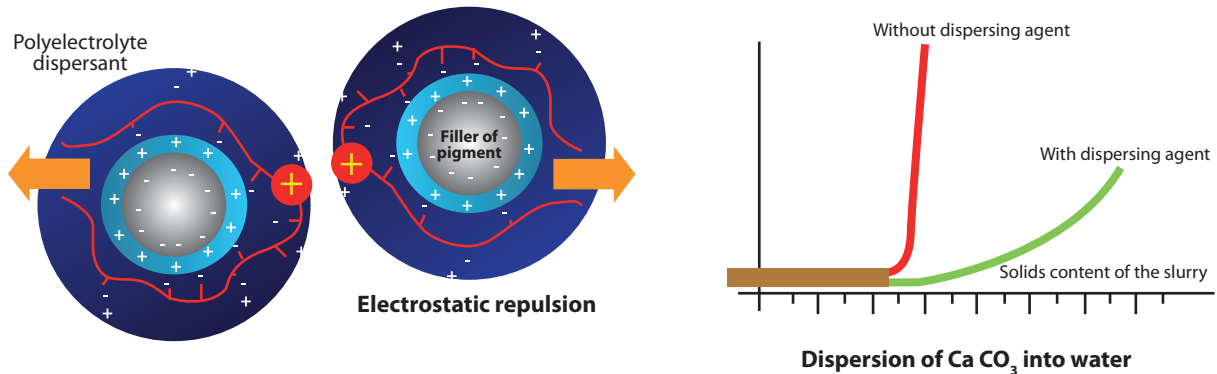
# DISPERSING AGENTS



**EAGLE CHEMICALS**<sup>TM</sup>  
RENEWS YOUR YOUTH LIKE THE EAGLE

# DISPERSING AGENTS

**Dispersing agents** help deflocculating the fillers and the pigments properly and stabilize the particles thanks to the electrostatic and steric repulsions. Aggregates and agglomerations formed are therefore considerably limited thus imparting a very good stability to the formulation with no increase of the viscosity within time. The dispersability is also considerably facilitated allowing to increase the filler content, while achieving easily pumpable slurries (low viscosities).



## ADVANTAGES

- Good dispersion of fillers and pigments and hence good color strength.
- Ensures good shelf life of the final paint.
- Excellent film properties such as opacity, color strength, and gloss level.

**EAGLE CHEMICALS** offers the following range of dispersing agents that uses an ionic repulsion mechanism to disperse the inorganic pigments that are typically used in water borne paints and coating systems

**WD-EAGLE (AS4/40)**

**WD-EAGLE (SS4/40)**

## RECOMMENDATIONS

**WD-EAGLE (AS 4/40),**

When high scrub resistance is needed as it releases ammonia during the drying process and therefore has little impact on water and alkaline resistance of the dry film. It also stabilizes the pigment particles of the paint during storage and film formation, hence ensuring stable viscosity and excellent flow/ leveling.

**WD-EAGLE (SS 4/40),**

When high gloss is needed as it decreases the surface roughness and therefore, enhances the pigment dispersion in the dry paint film.

# DISPERSING AGENTS

## CHARACTERISTICS

Product	Active Content	Density @23°C	Stability	PH @23°C	Viscosity @23°C	Composition	Application
WD-Eagle (AS4/40)	40%	1.20 kg/l	Soluble in water	7.5 - 9	≤ 400 cP	Ammonium salt of polyacrylic acid in aqueous solution, silicon free	Excellent washability and improved scrub resistance in HPVC paints
WD-Eagle (SS4/40)	40%	1.30 kg/l	Soluble in water	7.5 - 9	≤ 400 cP	Sodium salt of polyacrylic acid in aqueous solution, silicon free	Better gloss and whiteness for LPVC paints

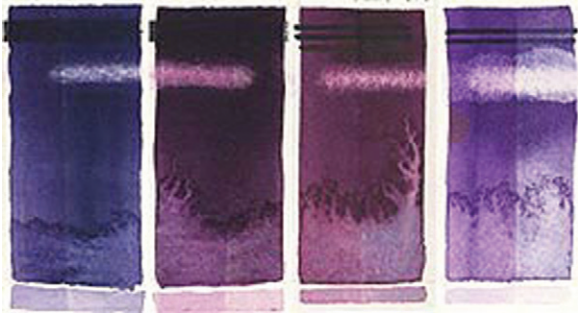
## GUIDE FORMULATION

Raw Materials	High PVC paint wt/gms	Low PVC paint wt/gms	Remarks
Water	249.0	250.0	
Wetting agent	2.0	1.5	
WD-EAGLE (AS 4/40)	5.0	0.0	Ammonium salt dispersing agent
WD-EAGLE (SS 4/40)	0.0	7.5	Sodium salt dispersing agent
Antibacterial agent	2.0	1.5	Preservative
Antifoaming agent	1.5	1.5	
Tylose H30,000 YP2	3.0	4.5	Thickener (HEC)
Ammonia	2.0	2.0	
TiO <sub>2</sub>	30.0	200.0	
CaCO <sub>3</sub> 15 μ	250.0	90.0	
Talc Powder 20 μ	75.0	0.0	
CaCO <sub>3</sub> 20 μ	250.0	0.0	
Binder 50%	125.0	430.0	
Texanol	4.0	10.0	
Antifoaming agent	1.5	1.5	
Total	1000.0	1000.0	



# DISPERSING AGENTS

## COLOR STRENGTH



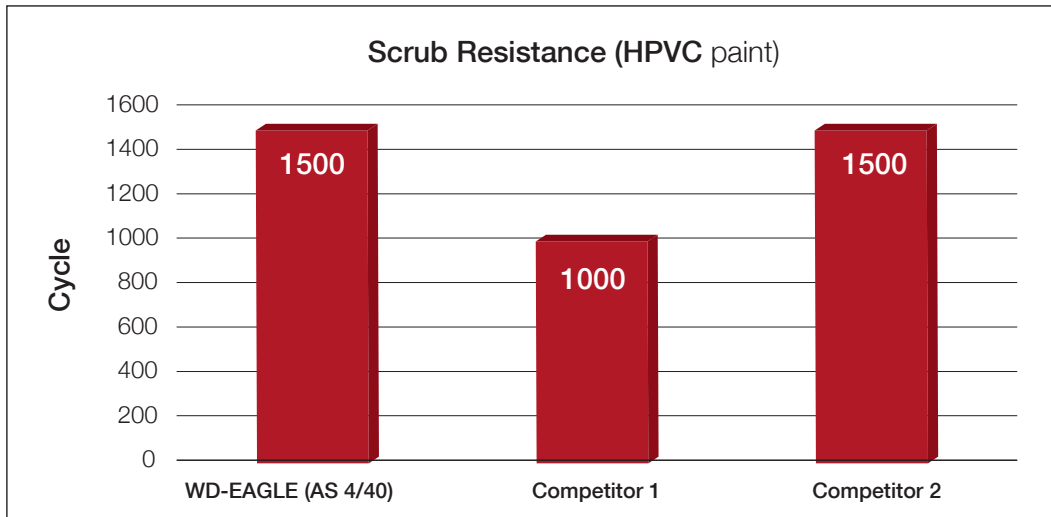
Without dispersing agent



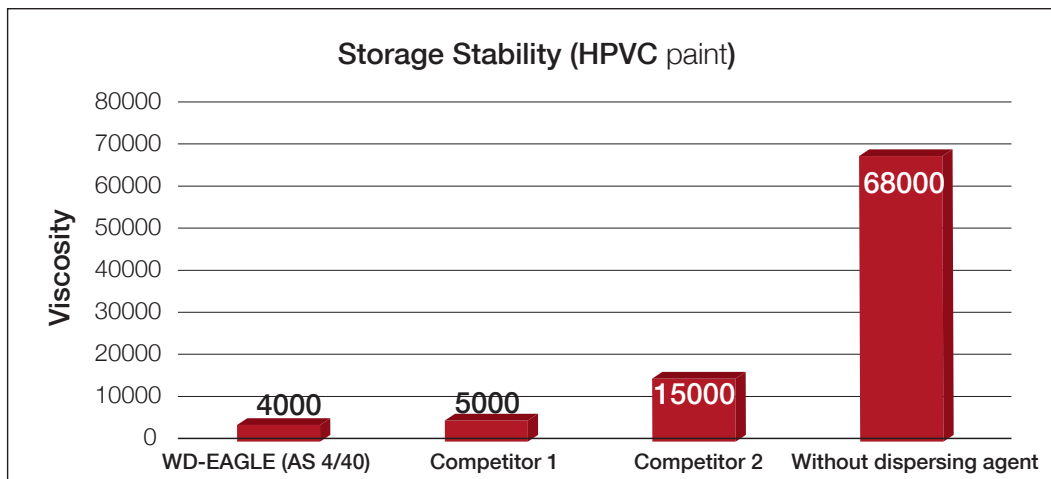
with Eagle dispersing agent

## PAINT EVALUATION

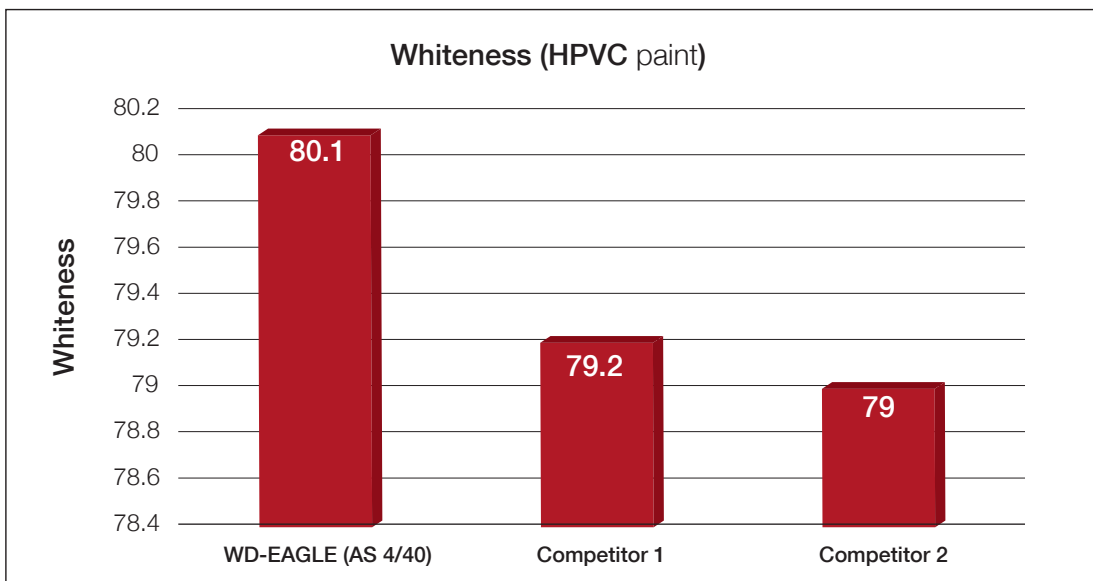
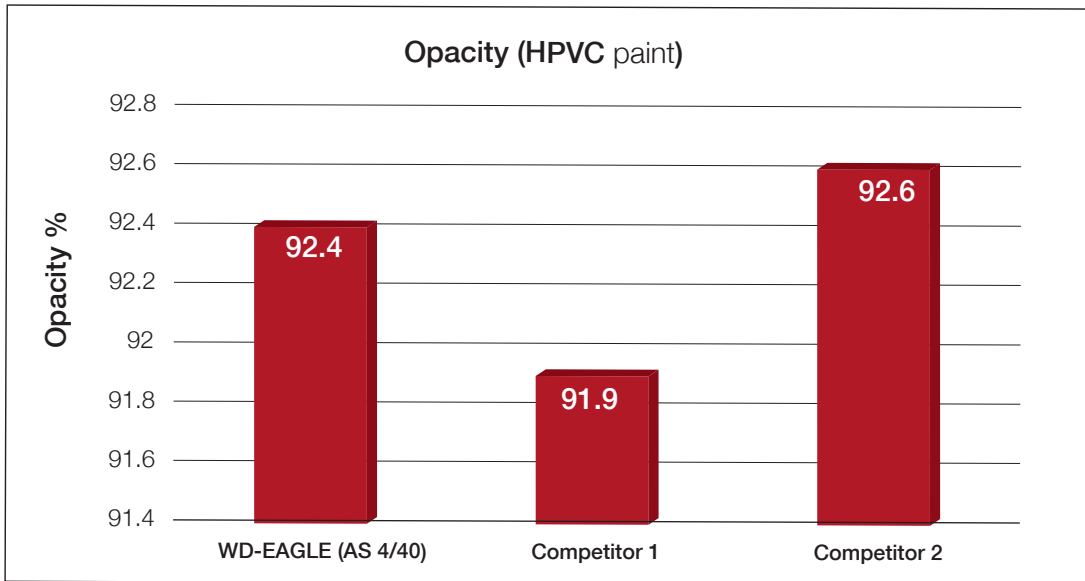
WD-EAGLE (AS4/40) versus Ammonium Salt competitors:



After one week @25°C, Viscosity-BKF RVT, SPS, rpm 20



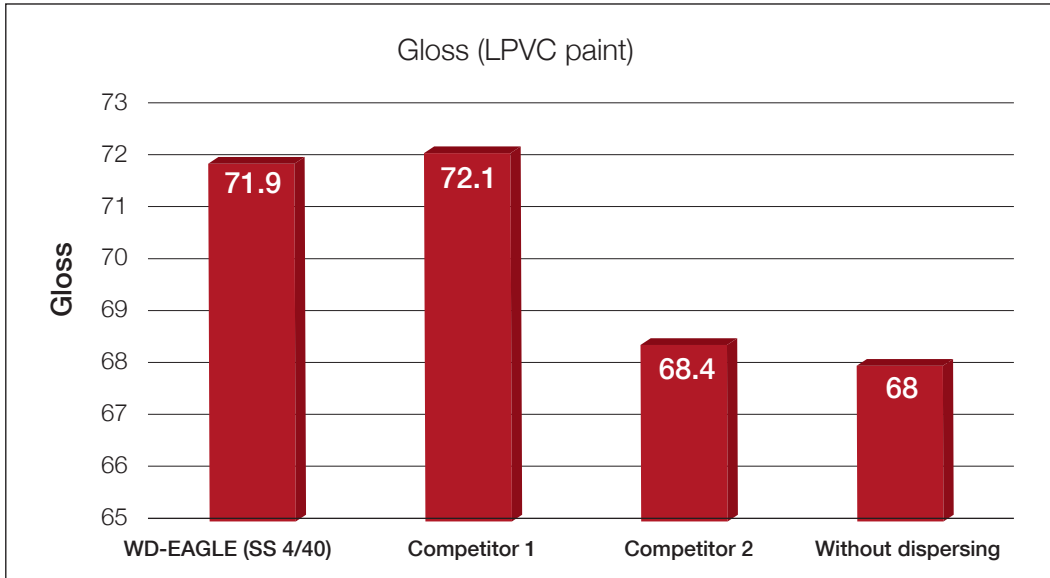
# DISPERSING AGENTS



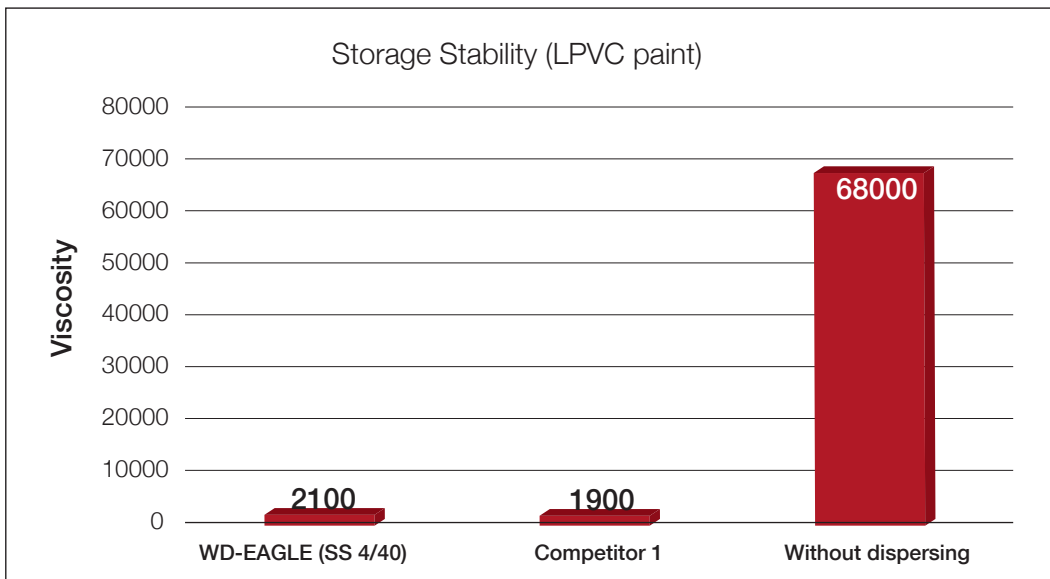
# DISPERSING AGENTS

## PAINT EVALUATION

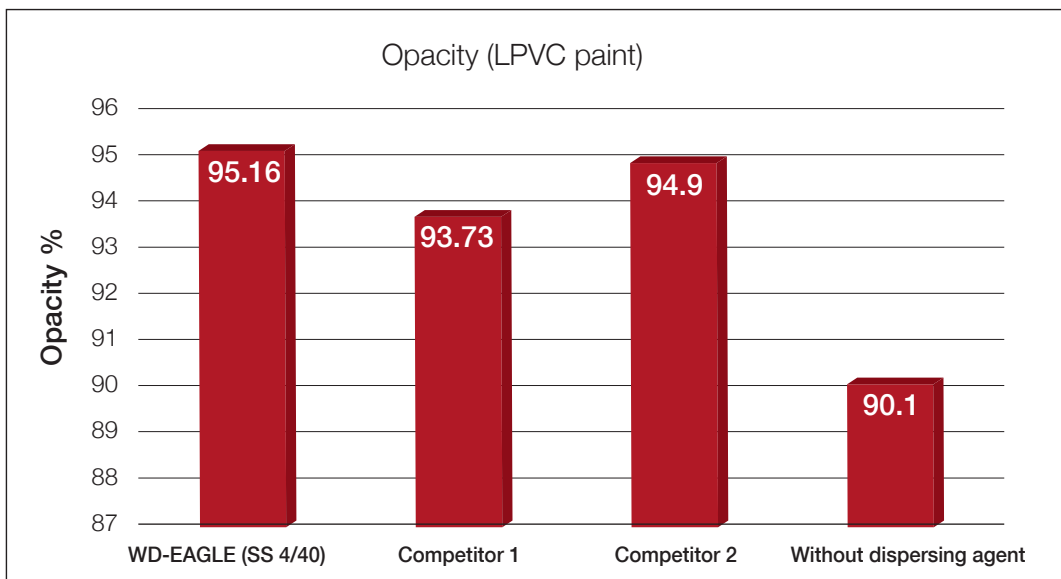
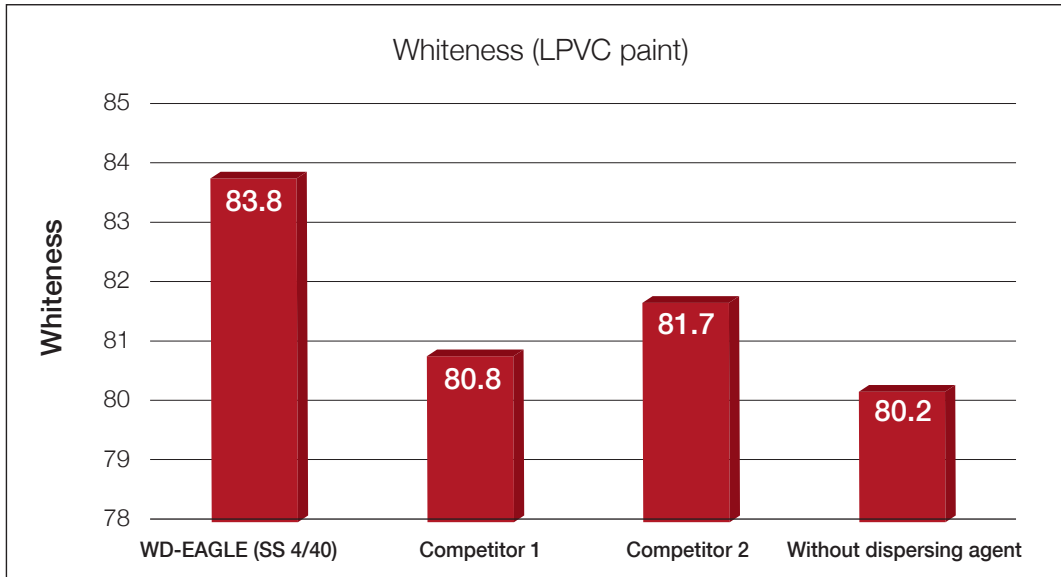
WD-EAGLE (SS4/40) versus Sodium Salt competitors:



After one week @25°C, Viscosity-BKF RVT, SPS, rpm 20



# DISPERSING AGENTS



**EL Shark Company for Trade & Industry / Eagle Polymers Company**

[www.eagle-chemicals.com](http://www.eagle-chemicals.com)

**Head Office**

72 B/2, Hegaz St., Roxy, Cairo, Egypt  
Tel: +20 2 22596601/2/9  
Fax: +20 2 22596612  
Gsm: +20 1000776659  
Postal code: 1134

**Customer Service Department**

Tel: +20 2 22596601/2/9 - EXT: 107  
Email: [cs@eagle-chemicals.com](mailto:cs@eagle-chemicals.com)

**Logistics Department**

Tel: +20 2 38202871/2 - EXT: 112  
Email: [Logistics@eagle-chemicals.com](mailto:Logistics@eagle-chemicals.com)

**Factories**

**Solvent Borne Resins  
& Acrylics + UPR plants**

Industrial Zone # 2, Part no.233,  
6th October Egypt  
Tel: +20 2 38202871/2  
Fax: +20 2 38202481  
Gsm: +20 12 86299222

**Emulsion Resins plant**

Engineering Square (E2)  
Industrial Complex  
North Extensions Industrial  
Zone  
Part NO# B4- H2- H4 H6  
6th October, Egypt