



HIGH SOLIDS RESINS



EAGLE CHEMICALS™
RENEWS YOUR YOUTH LIKE THE EAGLE

HIGH SOLIDS RESINS

EAGLE CHEMICALS offers high solid resins (80-100 % solids) that successfully meet regulations with regard to volatile organic compounds customer specifications.

HIGH SOLID RESINS

Resin Code	NV	Solvent	A.V	Viscosilty	Color Gardner
LA-EAGLE (SWZ 64-5/70)	80.0%	D60	10 Max	V-W	6 Max.
LA-EAGLE (VWZ64-9/70)	80.0%	D60	10 Max	U-V	6Max.
LA-EAGLE (S68-15/100)	98.0%	Solvent less	15 Max	Y-Z	6Max.

ALKYD EMULSIFIER

ES-EAGLE 4045 is an alkyd emulsifier that allows achieving the VOC levels required by replacing the solvent used during paint formulation by water

Product	Apperance	Density	Solid Content	Viscosilty cP at 23 °C
ES-EAGLE 4045	Dark Brownish-Greenish Color	1.25 kg/L	45±2%	100-400

GUIDE FORMULATION

Raw material	Kg	Remarks	Solvent Mix	Quantity
LA-EAGLE (VWZ 64-9/70) 80%	130.0	Long alkyd	D 60 or D40	35.0
Benton paste 34	10.0	Rehology modifier	Acetone	30.0
FA 601	6.0	Dispersing agent	Methoxy propanol	30.0
BYK 354	1.5	Flow/leveling agent	Methyl isobutyl ketone	05.0
TiO ₂	300.0		Total	100.0
CaCO ₃	45.0			
		Grind well up to fineness		
LA-EAGLE (VWZ 64-9/70) 80%	370.0			
Co (10%)	3.5			
Ca (10%)	10.0			
Zr (12%)	11.0			
Exkin 2	3.0	Anti Skinning agent		
TOTAL	890.0			
Solvents mixture		Adjust Viscosity to 4.8 poise		

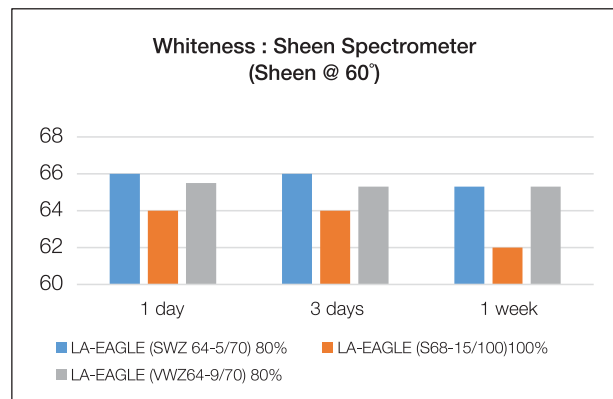
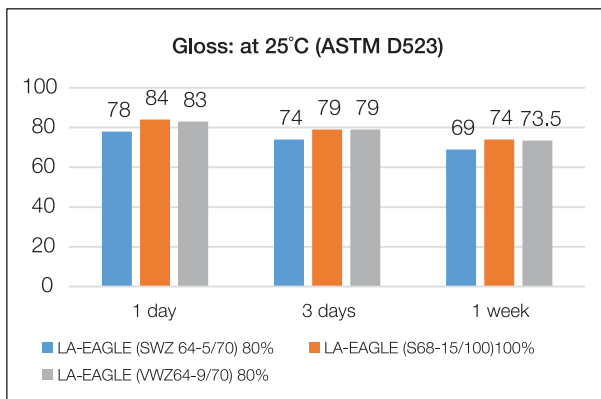
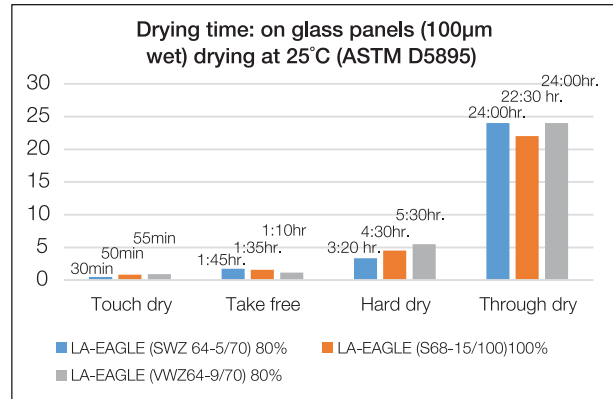
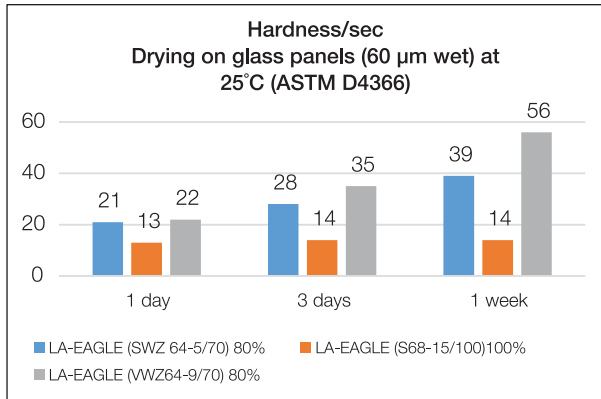
PAINT FORMULATION

Paint formulation	LA-EAGLE (SW 68-15/70)100%	LA-EAGLE (VWZ 64-9/70) 80%	LA-EAGLE (SWZ 64-5/70) 80%
Formulation resin solid	49.6	41%	39.3%
Density kg/l	1.318	1.310	1.270
Required solvent	89.0	77.0	118.6
Viscosity cup ford 4 / Min	1:50	1:40	1:45
Total wt after adjusting viscosity kg	988.3	1.310	1.270
VOC gm/l	139	247	268

- NOTES:**
- Using the above solvent mixture achieves the VOC regulations.
 - For VOC lower than 300 gm/l you can use D60 or D40 accompanied with one of the above solvent mixture.
 - It is also recommended to mix LA-EAGLE (S68-15/100) as a reactive diluent with the others products.

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PAINT SPECIFICATION



ES-EAGLE 4045

It uses a new technology allowing water to replace VOC components by volume as it allows the addition of up to 50 % water into solvent-based alkyd paints without any additional raw materials or process change.

ADVANTAGES

- Significant cost savings, by increasing resultant paint volume.
- Easy to apply, as all formulation procedures are performed as usual without any complicated calculations.
- Economic, as it represents 0.1- 0.3 % of the total formulation.
- For pre emulsion we recommend 1.5% to 2.5% of water content
- Achieves better performance , in terms of better whitening ,gloss , opacity and rehology.
- Helps satisfying the VOC regulation, by substituting the amount of solvents by water.
- Maintains the ability to dilute the resulting coating with mineral spirits and other alkyd solvents.

RECOMMENDED RESINS

LA-EAGLE (SW64-65/70) 70%

LA-EAGLE (SWZ64-5/70) 80%

LA-EAGLE (SW65-4/60) 75%

It is highly preferable to use ES-EAGLE 4045 with low viscosity resins

For low VOC , low viscosity paints, it is recommended either to reduce the water content below 25% or to use LA-EAGLE (SW65-4/60) 75%

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