Diamond Precipitated Calcium Carbonates in Spred Lustre Type Enamels Prepared on High Speed Mixers.

J. J. Borgo

Recent changes in manufacture and processing have improved the dispersibility of DIAMOND ALKALI COMPANY's precipitated calcium carbonates. Typical are results obtained with SUSPENSO and its surface-treated coated version SURFEX MM. High quality enamels, extended with these products, may be made with the Cowles Dissolver or equivalent dispersers.

A formulation which we consider typical of 4618 Spred Lustre follows. Brightness and contrast ratio are improved by using DIAMOND's precipitated calcium carbonates. Fineness of grind is consistently obtained in minimum time.

Semi-gloss Pastel Tinting White

Lbs.		Gallons
200.0	Soya Alkyd (70% N.V. odorless)	25.60
4.0	MPA (Baker Castor Oil)	.60
15.0	Magnesium Silicate (Mix-in Type)	.64
295.0	Rutile Titanium Dioxide	8.44
125.0	SURFEX MM	5.67
245.0	Alkyd Resin (40% N.V. low odor)	33.50
13.0	Low odor mineral spirits	2.00
1.7	6% Cobalt	.21
1.7	4% Calcium	.22
1.7	24% Lead	.20
149.0	Low odor mineral spirits	22.80
1.0	Anti-skinning Agent	.12
1,052.1	- - - - TOTAL - - - - -	100.00

Wt/gal.	10.52 lbs.
Viscosity (75° F)	73 KU
Fineness of Grind (Hegman N.S.)	6½+
Sag Control	Good
Gloss (60° Photovolt)	54 (.006" film on milk glass)
Brightness	90
Contrast Ratio (.003" film)	.96

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