



White Cloud® Safe Yellow Pigment Enhancer – Powder and Slurry

230 coating grade and 260 high opacity grade

Sept 19, 2007

Description: White Cloud Safe Yellow Pigment Enhancer is a yellow opacifying pigment that is a non-toxic, low-cost, high performance alternative to Lead Chromate. It is used in applications requiring opacity, superior dispersability, low oil-absorption, suspension stability, high color, and sunlight, heat, and weathering stability. The fineness, purity and low water-soluble zinc content of Safe Yellow IC® insure wide application system compatibility and low acid reactivity. The ingredients in the product conform to FDA requirements and are approved for indirect food contact.

Applications: Safe Yellow IC is ideally suited as an extender for expensive organic pigments in high quality industrial finishes. Its positive effect is the enhancement of undertone color for **Red, Orange and Yellow** in paint and powder coatings, and plastics and mastics by reducing organic and TiO₂ usage which serves to improve flow, opacity and film performance. The utilization of Safe Yellow IC achieves heretofore unattainable high solids and low VOC's for primers, top coatings, plastic color concentrates, Kraft paper inks, and mastic formulations. Applications include paint and powder applications include solvent, water or thermoplastic based enamels, and metal primer formulations.

Packaging: 25 kg paper bags

<u>Typical Specifications</u>			
		SYIC-c	SYIC-h
Active Ingredients	% Minimum	99	99
Zinc Sulfide Content	% Minimum	28	58
Zinc Oxide	% Maximum	5	5
Volatile at 105°C	% Maximum	0.5	0.5
Water Soluble Salts	% Maximum	0.5	0.5
pH value	Median	6.2 – 7.8	6.2 – 7.8
Density in grams/cc @25°C	Nominal	4.0 – 4.5	4.0 – 4.5
Heat Stability in °F/°C	Nominal	1,832/1000	1,832/1000
325 Mesh Residue [44 microns]	% Maximum	0.1	0.1
Oil Absorption in g/100g	Maximum	12.5	12.5
Hiding Power in square feet/lb	Feet ² /Lb	46.5	81.5
Mohs Hardness	Median	3	3
Heavy Metals (Pb, Cd, Hg, Cr) in PPM	Maximum	50	50

Slurry

Description: The pre-dispersed slurry in water and solvent is generated from powder and thus has all the characteristics of powder. It provides an efficient tinting of aqueous trade products, industrial paints and coatings and is compatible with a wide range of formulations that are based on acrylic, acrylic copolymer, vinyl-acrylic and polyvinyl acetate emulsions. Ease of dispersion is achieved by its anti-settling properties contained in a pourable paste formulation. It is resin-free for a broad compatibility range and is used in aqueous coatings with pH ranges from 7-11.

Applications: These products compatible with most water based emulsions used in flat, eggshell, semi-gloss and gloss paints. They are used for exterior emulsion paint and industrial maintenance coating.

Packaging: 5 gallon pails or 55 gallon drums

<u>Typical Specifications</u>					
-			-		
Total Vehicle Weight	%	25.6	Vehicle Volume	%	41.04
Total Vehicle Volume	%	58.29	Vehicle Solids Weight	%	7.87
Pigment Weight	%	74.4	Vehicle Solids Volume	%	17.25
Pigment Volume	%	41.71	Density lb/gal	lb/gal	19.4