



Description

Calcium is an auxiliary drier that is used solely in combination with primary and secondary driers. It can also be used as a pigment wetting agent and loss of dry additive.

Characteristic Data

Appearance	clear Liquid	
Metal content	Ca: 4.90 - 5.10 %	
Non-volatile content	55.00 - 65.00 %	ASTM D 1644
Color	Gardner: <= 10	ASTM D 1544
Viscosity	A-5 to K	ASTM D 2373
Specific gravity	0.936 - 0.960	(25°C) ASTM D 1963
Weight/Gallone	7.80 - 8.00 lb/gal	(25°C) ASTM D 1963

Properties

Calcium itself has no drying effect on binders that dry by oxidation. However, it yields synergistic effects in combination with primary driers such as cobalt, manganese and Borchers OXY-Coat, and with secondary driers such as zirconium. When added during the dispersion, it prevents adsorption of the primary driers by the pigments thereby stabilizing surface dry. Calcium also promotes pigment wetting to improve film gloss.

Applications

5% Calcium Hydro-Cem driers are carboxylate metal salts designed for waterborne coatings but can be used in solventborne coatings as well. Calcium driers are used in all oxidatively cured systems, whether air or force dried. They are used in architectural paints, industrial coatings and stains.

Dosage

In conventional alkyd formulations, the Calcium addition is between 0.03 - 0.30 % metal based on the vehicle solids of the coating and will vary depending upon the composition of the binder. The specific drier blend should be experimentally determined. Higher levels might be needed if added to the dispersion to prevent drier adsorption. Calcium drier can be added to the dispersion and/or in the letdown with other driers.

Storage

Protect from the effects of weathering and store at temperatures below 50 °C. Once opened, containers should be resealed immediately after each use.



Safety

Please refer to our safety data sheet for information relating to product safety.

Updated: 14.06.2016

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