15% Potassium Hex-Cem®

Accelerator additive for unsaturated polyesters and pot life stabilizer for 2 components PUR systems

Description

15% Potassium Hex-Cem® is a potassium 2-ethylhexanoate dissolved in diethylen diglycol which combined with cobalt support the accelerating effect in unsaturated polyesters. This results in a decrease of discoloration of UPS-Systems caused by Cobalt. Further it is also capable of stabilizing the rheological and the pot life behaviour of waterborne 2-components PUR systems and additionally it can positively affect the haze-values of these paint systems

Characteristic Data

Metal content	14.90 - 15.20 %	
Non-volatile content	>=92.0%	D1644
Water content	3.00 - 4.50 %	KF
Color	<=9 gardnr	ASTM D1544
Viscosity	3000 - 6000 cPs	Brookfield
Density	1.090 - 1.120 g/cm³	25°C, D1963
Weight/Gallone	9.08 - 9.33 lb/gal	25°C, D1963

Properties

15% Potassium Hex-Cem® is completely miscible with water, alcohols and other polar solvents. It is hygroscopic and may therefore absorb moisture from the air. In the event of prolonged exposure to air, **15% Potassium Hex-Cem®** may react with carbon dioxide in the air (formation of carbonate). This is irrelevant if the product is handled correctly. **15% Potassium Hex-Cem®** can be used as an accelerator in unsaturated polyester resins dissolved in styrene. Some cobalt carboxylate, for example, is still necessary although the required amount of cobalt can be reduced by using **15% Potassium Hex-Cem®**, permitting films or castings of a lighter colour. It is known to stabilize the pot life behaviour of waterborne 2-component PUR paints based on polyester resins. After addition of the catalyst, a uniform viscosity is obtained within the mixing time. This is an important criterion with spray application. Gloss and the surface properties of the paint film are also improved. At the appropriate addition rate, a decrease in film hardness is unlikely to occur.

Applications

15% Potassium Hex-Cem® can be used in unsaturated polyesters such as in solvent-containing and waterborne systems.

Dosage

The approximate dosage is 0.2 - 1.0 %, relative to total formulation.

The ideal dosage of **15% Potassium Hex-Cem®** could be considerably different for different field of application and has to be determined in trials for each system.

Storage

Protect from the effects of weathering and store at temperatures between 5 and 30 °C.

Once opened, containers should be resealed immediately after each removal of the product.

With prolonged storage of opened containers it is advisable to scavenge the vapour space above the product with nitrogen before resealing the containers.

Safety

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

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