



Description

Dri-Rx® HF is a drier accelerator that is used for superior drying performance in solventborne and waterborne air dried paints, inks and coatings. **Dri-Rx® HF** is a solution of 2, 2'-Bipyridyl, an aromatic heterocyclic diamine in 2-butoxyethanol.

Characteristic Data

Content of	Bipyridyl 29.00 - 31.00 %	
Viscosity	A-5 to A	ASTM D 2373
Specific gravity	0.954 - 0.989	(25°C) ASTM D 1963
Weight/Gallone	7.95 - 8.24 lb/gal	(25°C) ASTM D 1963

Properties

Dri-Rx® HF is an organic compound that works synergistically with Cobalt, Manganese and other oxidative (transition) metals to speed up the drying process in hard-to-dry and thick film applications. By forming chelates with these oxidative metals, Dri-Rx® HF significantly increases their oxidative activity while reducing their susceptibility to hydrolysis and the loss-of-dry phenomenon that occurs through metal adsorption.

Applications

Dri-Rx® HF can be used in all oxidatively cured systems, whether air or force dried which includes architectural paints, industrial coatings, stains and printing inks.

Dosage

In High Solids Paints, a **Dri-Rx® HF** concentration of 0.2% on vehicle solids often contributes to dramatic reductions in drying time. It is especially useful in thick film applications and where early water resistance is critical.

In waterborne paints, a **Dri-Rx® HF** concentration of 0.2-0.5% on vehicle solids significantly reduces the drying time while also protecting the cobalt drier against hydrolysis. This protection against the loss-of-dry phenomenon is especially important where the paint formula needs to remain stable for extended periods of time.

In slow drying inks, a **Dri-Rx® HF** concentration of 0.1-0.5% effectively resolves drying problems that manifest as extended stack times and smudged prints. This improved drying is particularly useful in sheet-fed inks applied to nonporous substrates such as vinyl, plastic or foil where dry times are especially problematic.

The specific drier blend should be experimentally determined.



Storage

Protect from the effects of weathering and store at temperatures between 55-120° F (15-50°C). Once opened, containers should be resealed immediately after each use.

A note about Product Handling:

Dri-Rx[®] HF is supplied as a 30% solution of Bipyridyl in 2-Butoxyethanol. At low temperatures, bipyridyl can form crystals at the bottom of the container which might not be detected before the product is used. To prevent crystallization, simply store these products above 55° F. If crystallization is observed before the supernatant solution is used, these crystals can easily be re-dissolved by warming the product and stirring to insure complete mixing. Crystallization and re-dissolving these crystals does not affect the product's performance.

It is also important when using **Dri-Rx[®] HF** that the products which are being promoted are handled and stored so that they will not become contaminated with iron. As with other transition metals, bipyridyl will form a chelate with iron resulting in a characteristic pink color in white and light colored paints and inks. Such pinking results from iron impurities in raw materials and from unlined, improperly lined or corroded cans, among other sources.

Safety

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

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