

Dri-Rx[®] HF

Drier accelerator that is used for superior drying performance in solvent-based and water-based air dried paints, inks and coatings

Physical Characteristics

Appearance	Brown liquid
Content of	Bipyridyl 29.00 - 31.00 %
Non-volatile content	NA
Viscosity	A-5 to A ASTM D 2373
Specific gravity	0.954 - 0.989 (25°C) ASTM D 1963
Density	NA

Features

- 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
- Significantly increases oxidative activity while reducing susceptibility to hydrolysis and the loss-of-dry phenomenon that occurs through metal adsorption

Applications

- Oxidatively cured systems, including:
 - Architectural paints
 - Industrial coatings
 - Stains
 - 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 water-based 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 "pinkening" 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.

811 Sharon Drive / Westlake, OH 44145 / Telephone: +1 800-321-9696 / 440-899-2950 / Fax: +1 440-808-7114 / Internet: www.borchers.com / E-Mail: info.us@borchers.com

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.