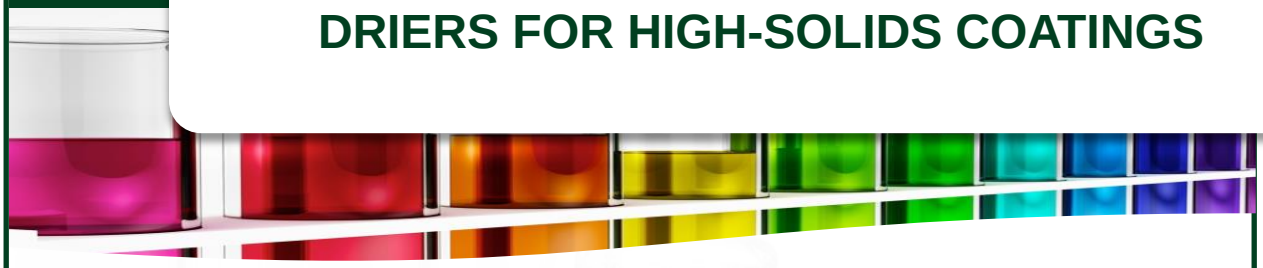
DURA

TECHNICAL BRIEF

DRIERS FOR HIGH-SOLIDS COATINGS



High-solids coatings are solventborne alkyd based coatings that provide the final film properties that are expected of conventional solventborne coatings. However, these high-solids resins are less pre-polymerized than conventional alkyd resins and require more active driers and a better balance of surface and through driers. **Dura Chemicals** offers a number of driers for high-solids coatings.

Product Type - Oxidative	Description/ Application
Duroct® Cobalt 12% **Duroct® Cobalt 12% NDA**	Primary driers used to catalyze free-radical cross-linking of unsaturated resins. Duroct® Cobalt 12% NDA is recommended for white paints to minimize film yellowing.
DriCAT® 2700F	High-activity cobalt-free drier.
DriCAT® 3 **DriCAT® 4**	Vanadium driers used primarily in thick film applications.
Product Type - Polymerizing	**Description/ Application**
Duroct® Zirconium 24%	Primary through drier but typically requires higher loadings.
DriCAT® 12	Neodymium drier for high-solids resins.
Dural® A-MS	Aluminum through drier. Increased loading reduces hard dry time but too high loading can cause surface embrittlement.
Product Type - Auxiliary	**Description/ Application**
Duroct® Calcium 10%	Drier used to promote activity of oxidative drier and/or minimize loss-of-dry when added in grind. However, calcium driers are deleterious to performance of DriCAT® 12.
Duroct® Lithium 2%	Drier used to promote activity of cobalt oxidative drier in high-solids resins.
Duroct® Zinc 18%	Drier inhibitor used to keep film open for uniform dry.

2200 Powell St, Suite 450, Emeryville, CA 94608. USA
T: +1(510) 658-1987 | F: +1(510) 658-8025 | www.durachem.com

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Product Type - Additives	Description/ Application
XL-Dri®	Drier accelerator for complexation with oxidative driers (Co, Mn and V) to increase the rate of surface cure.
MEKO #2	Anti-skinning agent to prevent premature cure in container.

DURA Chemicals *produces, or can produce, specific metal blends to customer specification. Specialty driers can also be developed for specific applications to meet the demanding performance requirements of high-solids coatings.*

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