

TECHNICAL BRIEF

DRICAT® 2705FW

New Metal Carboxylate Technology for the Oxidative Drying of Alkyd Based Waterborne Coatings.

DriCAT® 2705FW allows for better control of the drying process.

By controlling the drying process, a better balance of the drying stages gives a coating with:

- Longer wet edge
- Superior long-term color retention
- Better gloss control
- Better hardness development
- Better durability compared to current products in the market place

Combine with **Duroct® Lithium 2 % NDA** and **Duroct® Zirconium WR 12%**.

Balance the drier combination in order to maximise the performance.

The following are 6 variants for initial evaluation trials, figures given are based on metal on alkyd resin solids.

| | Duroct® Lithium 2% NDA | Duroct® Zirconium WR 12% | DriCAT® 2705FW |
|---|------------------------|--------------------------|----------------|
| 1 | 0.0025 | 0.085 | 0.00055 |
| 2 | 0.0025 | 0.11 | 0.00055 |
| 3 | 0.003 | 0.11 | 0.00055 |
| 4 | 0.003 | 0.14 | 0.00055 |
| 5 | 0.003 | 0.14 | 0.0007 |
| 6 | 0.002 | 0.08 | 0.0004 |

It is recognised that the balance of the driers changes with different binders, additives, pigments, fillers, etc. If the above addition rates do not give the required performance, then the following adjustment methodology is recommended:

- Maintain the Lithium and Zirconium to Manganese metal ratios in the above variants and adjust the loadings as required.
- Adjust the Zirconium content up or down as required.
- Small adjustments of Lithium.
- Balance the Zirconium and Lithium, as both are through driers.
- Adjust the **DriCAT® 2705FW**.

Technical Assistance – ***drying information is very important.***

- It is important to know all stages of drying, whether that is the 4 or 5 stages from a drying recorder or the more subtle stages of hand drying.
- Very fast and water based coatings may miss one or more of the drying stages.
- The more we have – the more we can understand – the more we can help.

Further information and advice is available from your Sales and Technical contacts.