

TECHNICAL BRIEF

TYPICAL DRIER DOSAGE AND ADDITION CALCULATION

Recommended starting point ranges :

Metal	Range %					
	Total	Solventborne			Waterborne	Ultra-Low VOC
		LO Alkyd Typical	SO Alkyd Typical	Stoving / Bake		
Aluminum*	0.05 – 0.60	0.20 – 0.30	0.10 – 0.20			
Barium*	0.10 – 0.25	0.15 – 0.20	0.15 – 0.20		0.10 – 0.15	
Bismuth*	0.02 – 0.30	0.10 – 0.20	0.10 – 0.20	0.10 – 0.20		
Calcium*	0.05 – 0.60	0.15 – 0.30	0.10 – 0.20		0.05 – 0.10	0.15 – 0.45
Cerium*	0.10 – 0.30	0.15 – 0.25	0.10 – 0.20	0.02 – 0.05		
Cobalt*	0.02 – 0.15	0.04 – 0.07	0.03 – 0.06	0.02 – 0.05	0.04 – 0.12	0.08 – 0.15
Iron*	0.01 – 0.15			0.02 – 0.04		
Lead*	0.30 – 1.00	0.50 – 0.80	0.35 – 0.70			
Lithium*	0.05 – 0.20	0.10 – 0.15	0.10 – 0.15		0.10 – 0.20	
Manganese*	0.02 – 0.15	0.06 – 0.09	0.04 – 0.09	0.02 – 0.05	0.06 – 0.14	0.08 – 0.15
Neodymium*	0.15 – 0.40	0.20 – 0.30	0.15 – 0.20			
Potassium*	0.05 – 0.25				0.10 – 0.30	
Strontium*	0.20 – 0.50	0.20 – 0.40	0.15 – 0.30			
Vanadium*	0.01 – 0.15	0.08 – 0.12	0.06 – 0.09			
Zinc*	0.05 – 0.40	0.15 – 0.30	0.05 – 0.20	0.05 – 0.10	0.10 – 0.20	
Zirconium*	0.10 – 0.80	0.20 – 0.40	0.15 – 0.30		0.10 – 0.30	0.20 – 0.60
XL-Dri**	0.10 – 0.30	0.15 – 0.25	0.10 – 0.20		0.10 – 0.25	
MEKO***	0.05 – 0.99	0.20 – 0.60	0.10 – 0.60			
DriCAT 408 ⁺					7.20 – 10.80	
DriCAT 507 ⁺					0.50 – 1.00	
DriCAT 508 ⁺					7.20 – 10.80	
DriCAT 2700F series		0.0004 – 0.0007	0.0003 – 0.0006	0.0001 – 0.0003	0.0004 – 0.001	0.0008 – 0.0015

* Metals are dosed as percentage metal on resin solids – The solvent-free weight of binder containing some degree of unsaturation

** XL-Dri is added as a percentage on vehicle solids

*** MEKO is added as a percentage of total formulation

+ Dosed as a percentage of total formulation

Waterborne – driers from the WR and WDX are recommended.

Ultra-Low VOC – DriCAT 2712 (Co), 2508 (Mn), 2005 (Ca), 4012 (Zr) are recommended.