

Next Generation Tin-Free Catalyst for Polyurethane Coatings

Borchi® Kat 2115

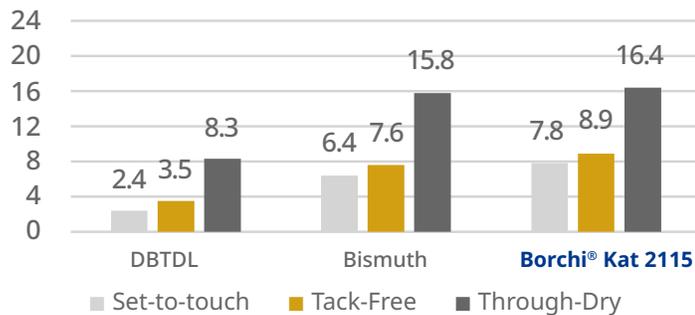
Neodecanoate mixed metals



- Improved labeling compared to DBTDL and 2EH-containing catalysts
- Better pot life and hardness compared to traditional DBTDL and bismuth catalysts

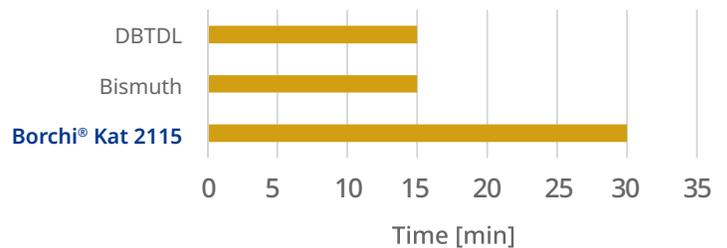
Results in 2K Polyurethane High Solids White Topcoat for Metal

Optimal Drying Times* in hours

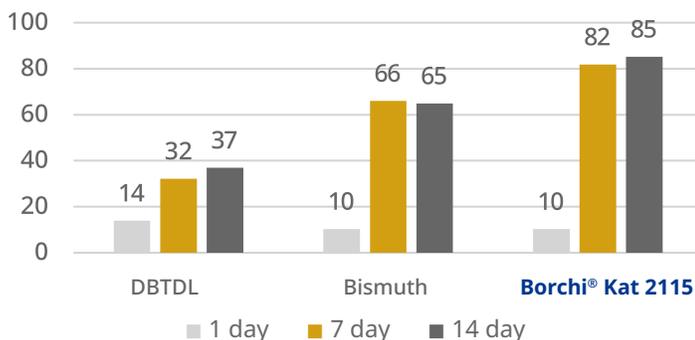


* Through-dry times varied in tested systems, with observed differences ranging from 3-8 hours between DBTDL and Borchi® Kat 2115

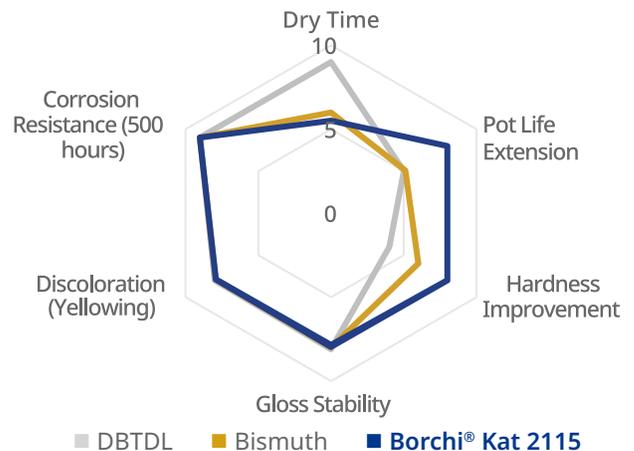
Longer Pot Life at 40° C



Better Hardness in seconds



Performance Attributes* 0=poor, 10=excellent



* See presentation for additional testing in other 2K systems

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Neodecanoate mixed metals



2K Polyurethane High Solids White Topcoat Formulation for Metal

Component A

Material	Function	Supplier	Dosage %		
			DBTDL	Bismuth	Borchi® Kat 2115
Setalux 1916 BA-76	Acrylic Polyol Resin	Allnex	14.36	14.36	14.36
Butyl Acetate	Solvent	—	3.18	3.18	3.18
Borchi® Gen 1252	Dispersant	Milliken	0.54	0.54	0.54
Kronos 2310	Pigment	Kronos	43.08	43.08	43.08
Setalux 1916 BA-76	Resin	Allnex	31.13	31.13	31.13
Polyurea Thickener	Rheology Modifier	—	0.15	0.15	0.15
DBE-Dibasic ester	Chemical	—	0.67	0.67	0.67
Solvesso 100	Solvent	ExxonMobil	6.27	6.27	6.27
Borchi® Gol 1474	Surface Active	Milliken	0.29	0.29	0.29
Tinuvin 292	Other	BASF	0.32	0.32	0.32
DBTDL	Tin Catalyst	—	0.03	—	—
Bismuth	Tin-Free Catalyst	—	—	0.05	—
Borchi® Kat 2115	Tin-Free Catalyst	Milliken	—	—	0.05

Component B

Material	Function	Dosage %
Tolonate HDT LV	Isocyanate	90.00
Butyl Acetate	Solvent	5.00
MPA	Solvent	5.00

Component A + B

Material	Dosage %		
	DBTDL	Bismuth	Borchi® Kat 2115
Component A	76.41	76.43	76.43
Component B	23.56	23.56	23.56
Total	99.97	99.99	99.99

VOC: 400 g/L
Viscosity (Comp A+B) at 100/s: 950 cps
100 microns WFT

Solids: 69.5%
NCO/OH: 1.1



For more information, please reach us at borchers.com/contact

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