

# Next Generation Tin-Free Catalyst for Polyurethane Coatings

## Borchi® Kat 2115

Neodecanoate mixed metals

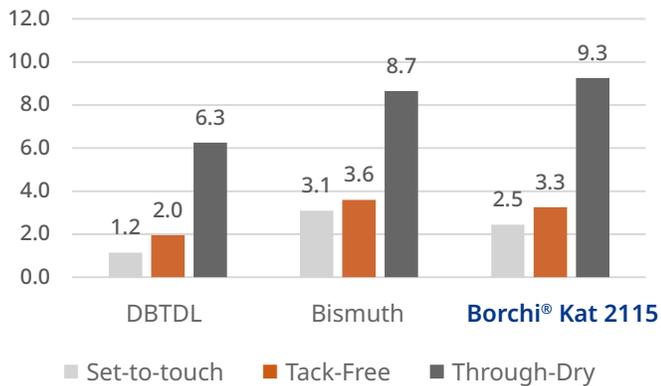


- Improved labeling compared to DBTDL and 2EH-containing catalysts
- Excellent dry times, pot life, hardness, and color compared to DBTDL and bismuth catalysts

### Results in 2K Polyurethane White Topcoat for Vehicle Refinish

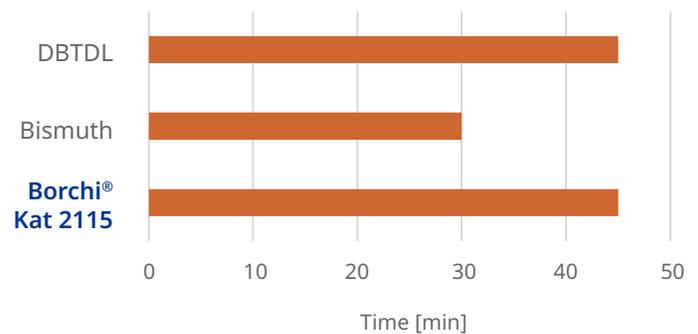
#### Excellent Drying Times

in hours



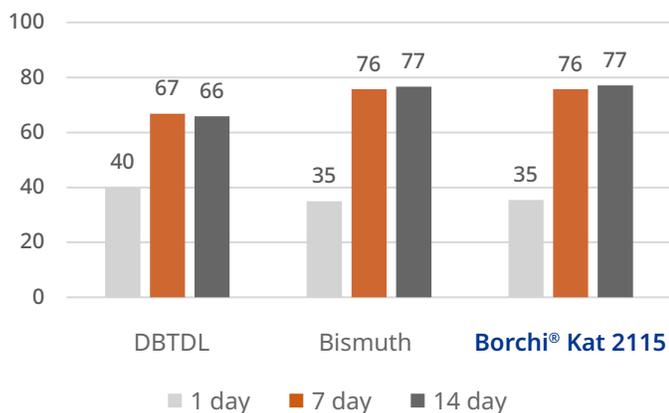
#### Longer Pot Life than Bismuth

at 40° C



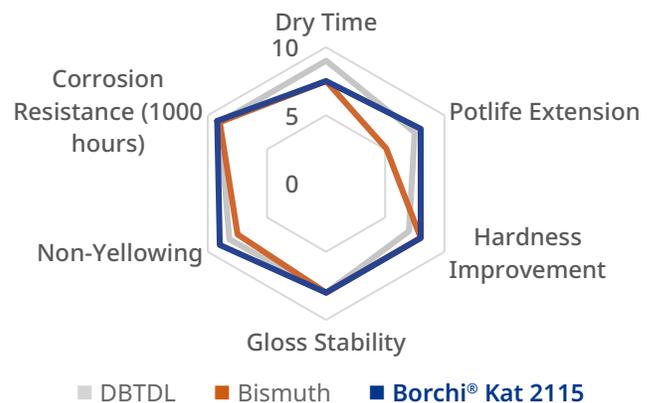
#### Optimal Hardness Over Time

in seconds



#### Performance Attributes\*

0=poor, 10=excellent



\* See presentation for additional testing in other 2K systems

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### 2K Polyurethane White Topcoat for Vehicle Refinish

#### Component A

Material	Function	Supplier	Dosage %		
			DBTDL	Bismuth	Borchi® Kat 2115
Setalux 1753 SS-70	Acrylic Polyol Resin	Allnex	15.88	15.88	15.88
MPA	Solvent	—	5.88	5.88	5.88
Kronos 2310	Pigment	Kronos	33.17	33.17	33.17
Borchi® Gel THIXO 2 slurry	Rheology Modifier	Milliken	2.74	2.74	2.74
Borchi® Gen 0650	Dispersant	Milliken	0.65	0.65	0.65
Borchers® AF 1171	Defoamer	Milliken	0.55	0.55	0.55
Setalux 1753 SS-70	Resin	Allnex	33.47	33.47	33.47
MPA	Solvent	—	2.02	2.02	2.02
Butyl Acetate	Solvent	—	5.17	5.17	5.17
Borchi® Gol 1474	Flow & Leveling	Milliken	0.26	0.26	0.26
<b>DBTDL</b>	Tin Catalyst	—	0.01	—	—
<b>Bismuth</b>	Tin-Free Catalyst	—	—	0.04	—
<b>Borchi® Kat 2115</b>	Tin-Free Catalyst	Milliken	—	—	0.04

#### Component B

Material	Function	Dosage %
Tolonate HDT LV	Isocyanate	80.00
MPA	Solvent	10.00
Butyl Acetate	Solvent	10.00

#### Component A + B

Material	Dosage %		
	DBTDL	Bismuth	Borchi® Kat 2115
Component A	81.89	81.89	81.89
Component B	18.01	18.01	18.01
Total	100.04	100.04	100.04

VOC: 427 g/L  
Viscosity (Comp A+B) at 100/s: 425 cps  
100 microns WFT

Solids: 65.7%  
NCO/OH: 1.05



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