borchers
A MILLIKEN BRAND

Bio-Based Alkyd Emulsion for Streamlined Rheology and Fast Drying

with Borchi® additives

Camelina oil-based white glossy coating for brush applied wood applications



Formulated with WorléeSol® VP E 1144 CA camelina-oil based alkyd emulsion *(38% bio-based content)*

Material	Function	Supplier	% by Weight	
			Control	Borchers Additives
Deionized Water	Diluent	—	8.10	8.10
Borchi® Gen 1252	Wetting and Dispersing Agent	Milliken	0.28	0.28
Borchi® Gel 0434	Rheology Modifier (high-shear thickener)	Milliken	—	1.95
Competitor 1	Rheology Modifier (low-shear thickener)	Competitor	0.27	—
Competitor 2	Rheology Modifier (mid-high shear thickener)	Competitor	0.89	—
Borchi® Burst DFS 500	Defoamer	Milliken	0.30	0.30
Kronos 2190	TiO_2 Pigment	Kronos	23.00	23.00
Grinding				
Propylene Glycol	Solvent	—	2.20	2.20
Borchi® OXY-Coat 1101	High-Performance Catalyst	Milliken	0.10	0.10
Borchers® Deca Zirconium 8 aqua	Drier	Milliken	1.18	1.18
Borchi® Gol 1570	Surface Additive	Milliken	0.10	0.10
WorléeSol® VP E 1144 CA	Bio-Based Alkyd Emulsion *with Camelina oil*	Worlée Chemie	53.48	53.48
Deionized Water	Diluent	—	11.40	10.49
Total	—	—	100.00	100.00

Dual-thickener performance

Fast dry times and excellent hardness

VOC Content	Gloss (60°)	Viscosity	pH	Density
<30 g/L	81 GU	120 KU	7.8-8.2	1.24 g/cm³

Performance data on the back ⟶

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Starting Point Formulation

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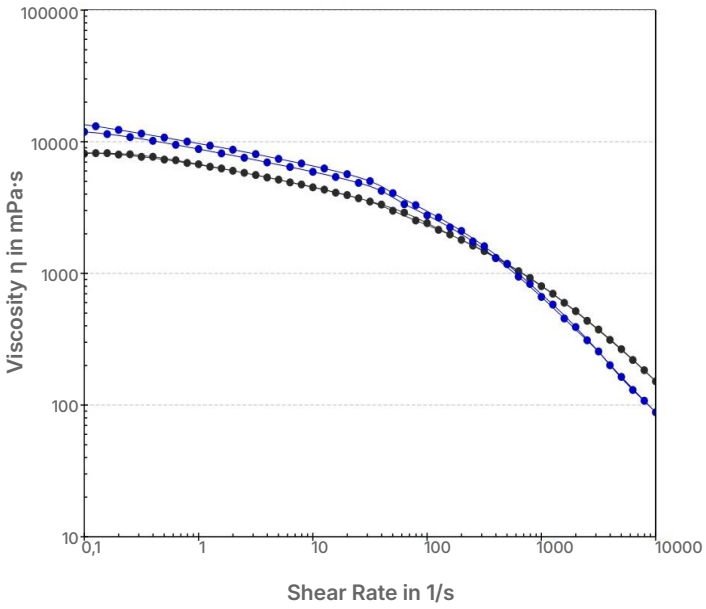


Camelina oil-based white glossy coating for brush applied wood applications

- ✓ **Dual-thickener performance with Borchi® Gel 0434 rheology modifier**
- ✓ **Very fast dry times with Borchi® OXY-Coat 1101 high-performance catalyst**

Comparable Viscosity Profile to Two Competitive Thickeners

No change in viscosity after 1 month at 40°C



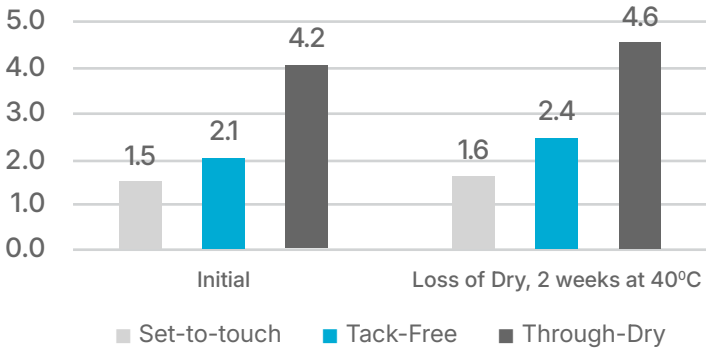
Competitor 1+2 Thickeners in Control Formulation **(120 KU)**

Borchi® Gel 0434 (122 KU)

Very Fast Drying with no Loss of Dry

with Borchi® OXY-Coat 1101

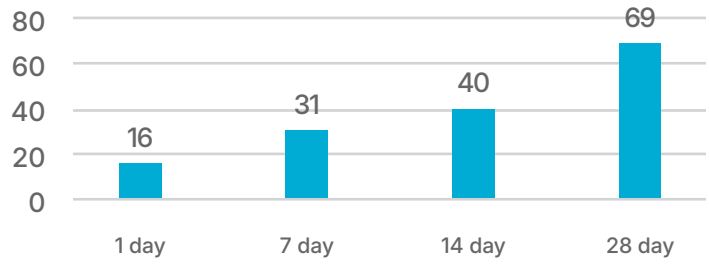
Hours



Great Hardness Development

with Borchi® OXY-Coat 1101

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

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