



Waterborne Wood Stain

based on a linseed oil emulsion (with Borchi® Gel A LA) and a self-crosslinking acrylic dispersion

with Borchi® OXY-Coat 1310 High-Performance Catalyst



Part 1: Alberdingk OP 100 Emulsion							
Material	Function	Control Formulation*	Borchi® Gel A LA Formulation**	Instruction	Supplier		
Alberdingk OP 100	Resin	36.40	36.40	Fully incorporate each ingredient before adding the next material	Alberdingk Boley		
Boltorn W 3000	Emulsifier	3.60	3.60		Perstorp		
Deionized Water	Water	60.00	58.00				
Borchi® Gel A LA	Stabilizer	0.00	2.00		Milliken		
Total		100.00	100.00				

Better Storage Stability

of the Alberdingk OP 100 emulsion after 2 weeks oven, 40°C

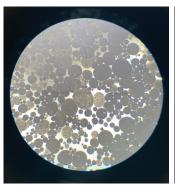


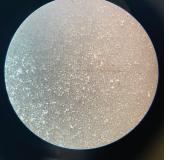
*Berdingk OP Emb *Borchi Gel A L^k *07.2021

Control

Borchi® Gel A LA

Smaller Particle Distribution



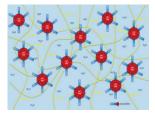


Control

Borchi® Gel A LA

Particle size distribution, microscopic magnification: 40x





Control Borchi® Gel A LA

A LA includes stabilization agent – yellow lines, red bubbles are resin – OP 100, blue lines are emulsifier (Boltorn W 3000)



Control





Part 2: Waterborne Wood Stain Formulation							
Material	Control Formulation	Borchi® OXY-Coat 1310	Instruction	Supplier			
Alberdingk OP 100 emulsion	10.10*	10.10**		Preparation Formulation 1			
Alberdingk AC 2736 (acrylic resin)	22.50	22.50	Fully incorporate each ingredient before adding the next material	Alberdingk Boley			
Accelerated aqua manganese dryer	0.05	0.00					
Borchi® OXY-Coat 1310	0.00	0.10		Milliken			
Silicone-containing defoamer	0.80	0.00					
Tri-Iso Butylphosphate (TIBP) silicone-free defoamer	0.00	0.60		Lanxess			
Competitor substrate wetting additive	0.20	0.00					
Borchi® Gol 1570 - wetting agent	0.00	0.10		Milliken			
Borchi® Gol LA 232 - slip agent	0.00	0.30		Milliken			
Dowanol DPnB - solvent	3.00	3.00		Dow			
Mirecide TF / 600W - biocide	0.40	0.40		Lamirsa			
Polyurethane-based associative thickener	0.50	0.00					
Liquid modified urea rheology additive	0.50	0.00					
Borchi® Gel THIX 921 - thickener	0.00	1.00		Milliken			
Deionized Water	61.95	61.90					
Total	100.00	100.00					

Chemical Resistance

After 2 hours on Walnut



Ketchup Mustard Red Wine

Water Coffee

Ammonia Water Hand Cream

Borchi® OXY-Coat 1310

Control Borcl

After 2 hours on Beech



Control



Borchi® OXY-Coat 1310



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

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at wymililken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing. Borchi is a trademark of Borchers Americas.

