

# Industrial Wood Waterborne Spray Coating for a Smoother Finish

with **Borchi® Gel L 75 N** multi-functional rheology modifier

For improved thickening and substrate wetting



## Simplified Screening Formulation

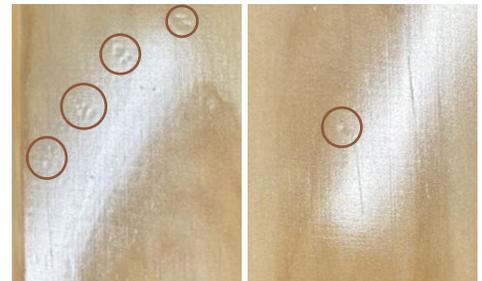
Further optimization may be needed based on desired application parameters

Material	Function	Supplier	Competitor	Borchi® Gel L 75 N
AC 3630	Self-Crosslinking Acrylic	Alberdingk Boley	77.55	78.01
Water	Carrier	—	6.23	6.27
<b>Borchi® Gol LA 200</b>	Defoamer	Milliken	0.10	0.10
<b>Pre-mix next 3 ingredients, then incorporate under agitation</b>				
Water	Carrier	—	10.48	10.54
Ethylene glycol monobutyl ether	Solvent	Fisher Scientific	2.02	2.03
Dipropylene glycol methyl ether	Solvent	Fisher Scientific	2.02	2.03
Competitor	Rheology Modifier	—	1.29	—
<b>Borchi® Gel L 75 N</b>	Rheology Modifier	Milliken	—	0.73
Preventol BIT 20 N	Biocide	Lanxess	0.12	0.13
Aqueous Ammonium Hydroxide ~29%	pH adjuster	Fisher Scientific	0.15	0.15
Total			100	100
Solids (wt %)			32.2	32.5
VOC (g/L)			125	125
Zahn #3 (seconds)			31	28
Gloss @ 60°			86.4	86.6

## Smoother Finish on Porous Substrates

Self-sealed, 4 wet mil each coat,  
Applied via AAA spray

### Pine



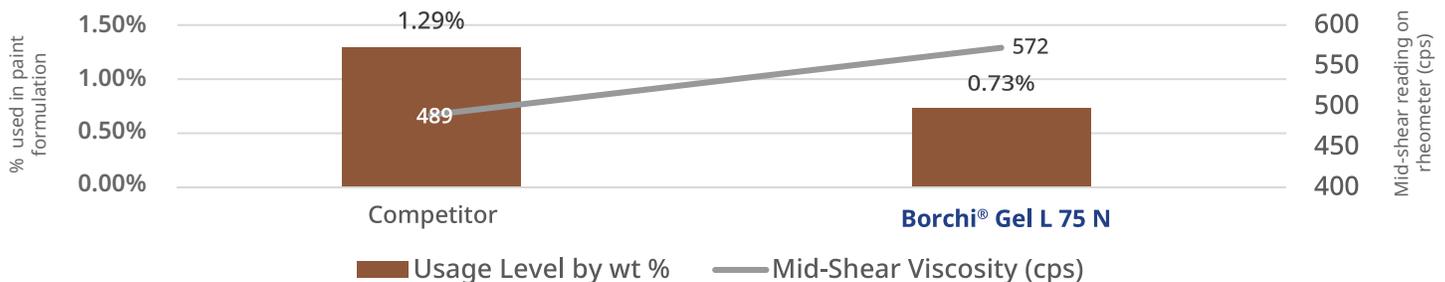
### Red Oak



Competitor

**Borchi® Gel L 75 N**

## Achieve Desired Viscosity at Half the Dosage



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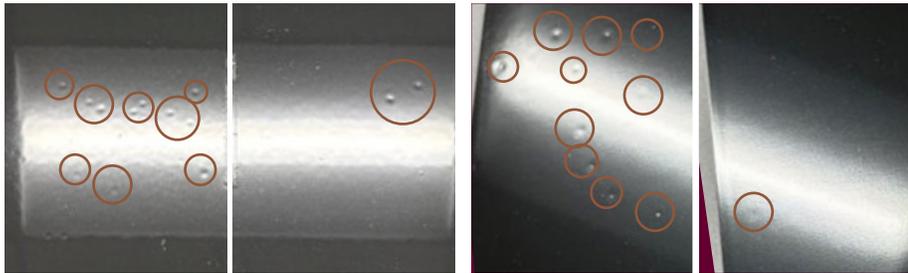
For improved thickening and substrate wetting



## Reduced Surface Tension on Low Energy Substrates

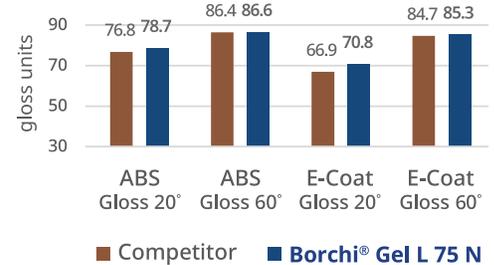
1 coat, 3.5 wet mil, applied via AAA spray; formulation not recommended for plastic - for test purposes only

### Improved Substrate Wetting



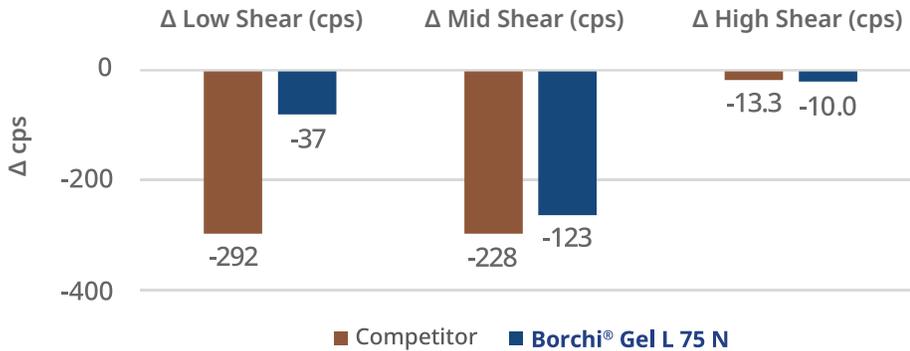
Competitor **Borchi® Gel L 75 N** Competitor **Borchi® Gel L 75 N**  
ABS Plastic E-Coated Steel

### Slightly Higher Gloss



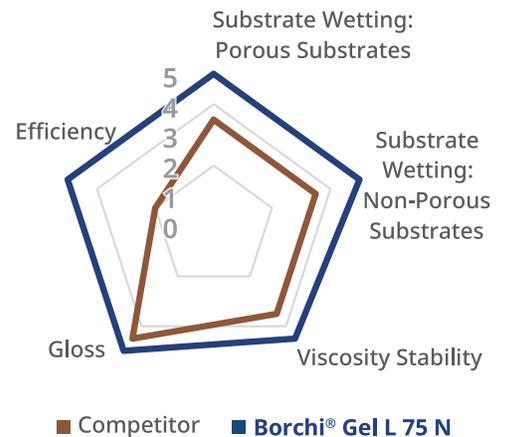
### Better Viscosity Stability

Less change in viscosity after heat aging for 1 month



### Overall Performance Benefits

0=poor, 5=excellent



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