

Waterborne Spray Coating for UV Curing and *Simplified* Rheology Modification

Borchi® Gel 0625 rheology modifier

Tin-free, APEO-free, and VOC-free HEUR thickener for mid shear ranges



- **FROM TWO TO ONE:** fewer rheology modifiers needed for optimal performance
- **No substance of concern identified under IKEA IOS-Mat-0066 & IOS-Mat-0010** (for Borchi® Gel 0625)*

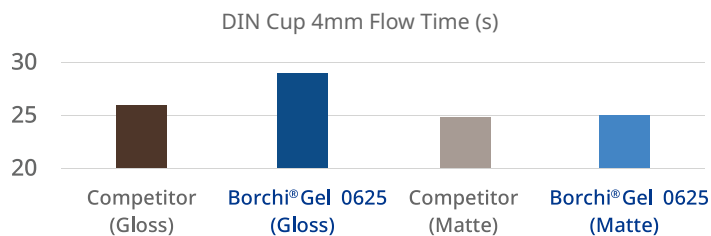
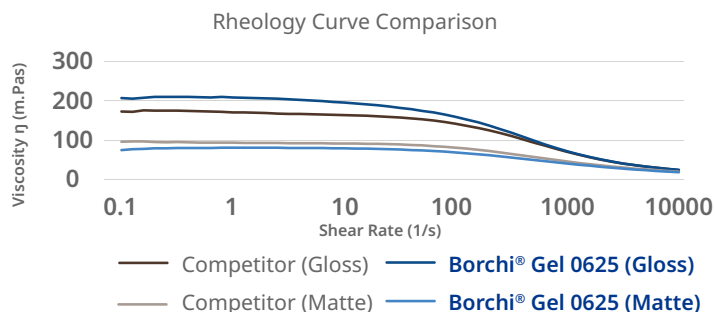
Material	Function	Supplier	Competitor <i>Two rheology modifiers</i>		Borchi® Gel 0625 <i>One rheology modifier</i>	
			Gloss	Matte	Gloss	Matte
Syntholux BW 2223	Waterborne-UV curing dispersion	Synthopol	86.2	85.2	86.2	86.2
Omnirad 1173	Liquid photo-initiator	IGM Resins	1.8	1.8	1.8	1.8
Borchi® Gel LA 50	Substrate wetting agent	Milliken	0.2	0.2	0.2	0.2
Borchi® Gel LA 200	Wetting and defoaming	Milliken	0.3	0.3	0.3	0.3
Ceridust 5551	Matting agent	Clariant	—	0.5	—	0.5
Syloid 7000	Scratch resistance and matting	W.R. Grace	—	1.0	—	1.0
Water	Carrier	—	10.7	10.2	10.7	10.2
Competitor 1	Mid shear rheology modifier	—	0.5	0.5	—	—
Competitor 2	Mid shear rheology modifier	—	0.3	0.3	—	—
Borchi® Gel 0625*	Mid shear rheology modifier	Milliken	—	—	0.8	0.8
TOTAL			100.00	100.00	100.00	100.00

*As a coating ingredient, no substance of concern is identified in Borchi® Gel 0625 under IKEA IOS-Mat-0066 (Vers. AA-163938-11) and IKEA IOS-Mat-0010 (Vers. AA-10911-11)

Borchi® Gel 0625 formulation

pH-value	Settling behavior	Application of the sample		VOC content	Solids content	Gloss 60°	Matte 60°
7.5	None observed	120µm Wet film on Glas 2x120g/m² spray with intermediate sanding on beech	10' RT, 15' 50°C, Hg-Lamp, 5 m/s	< 11.5g/L	38.8%	46	34

One Thickener, Similar Rheology Performance



Durability data on the back →

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No Impact on Stain Resistance (after 24 hours)

Borchi® Gel 0625 (Gloss)

Borchi® Gel 0625 (Matte)



Clear Gloss Finish

Borchi® Gel 0625 (Gloss)



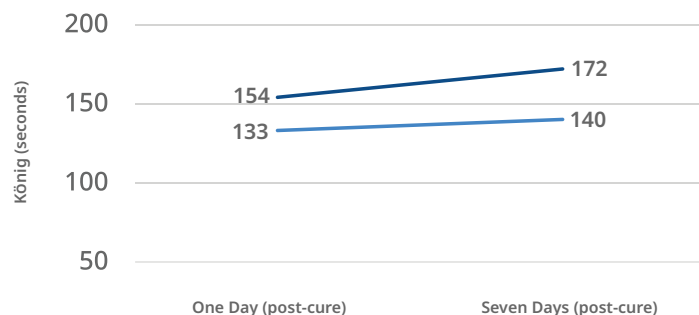
Stable Matte Finish

Borchi® Gel 0625 (Matte)



High Hardness Development

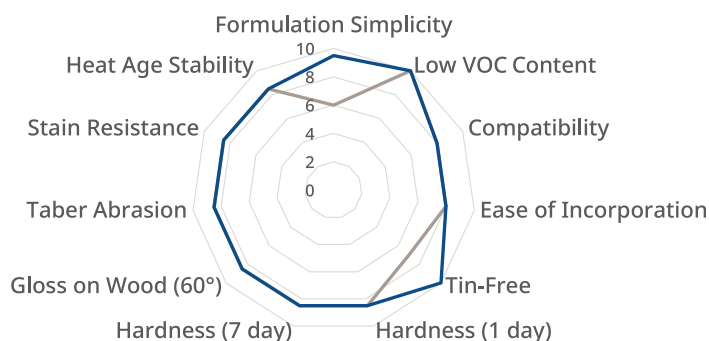
König Hardness



— Borchi® Gel 0625 (Gloss) — Borchi® Gel 0625 (Matte)

Overall Performance Benefits

0=poor, 10=excellent



— Competitor

— Borchi® Gel 0625



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