

Dispersion glaze for wood, based on Basis Acronal LR 8960, VOC < 40 g/l

Formulation

Raw Material	Supplier	A	B	C	D
		% by wt.	% by wt.	% by wt.	% by wt.
1. Water		25.2	22.8	25.2	25.2
2. Acticide MBS	(1)	1.0	1.0	1.0	1.0
3. AMP 90	(2)	0.1	0.1	0.1	0.1
4. Borchi® Gol LA 50	(3)	0.1	0.1	0.1	0.1
5. Borchers® AF 0670	(3)	0.2	0.2	0.2	0.2
6. Propylene glycol	(4)	1.0	1.0	1.0	1.0
7. White spirit D60	(4)	1.0	1.0	1.0	1.0
8. Borchi® Gel 0626	(3)	2.4	4.8	—	1.2
9. Borchi® Gel THIX 921	(3)	—	—	2.4	1.2
10. Acronal LR 8960	(5)	69.0	69.0	69.0	69.0
Total		100.0	100.0	100.0	100.0

Place const. 1. in the mixing vessel. Add const. 2.-7. and mix 15 min. at 2000 rpm. Add const. 8.-9. and mix 15 min. at 1000 rpm. Add finally const. 10. and stir further 10 min. at 500 rpm. Let rest for 48 hours prior to application.

Production indications

Technical Data

	A	B	C	C
VOC content (DIN EN ISO 11890-1)	27 g/l	27 g/l	38 g/l	37 g/l
pH-value	8.6	8.6	8.6	8.6
Solids content (1.5h at 110 °C)	34.98 %	35.84 %	35.03 %	35.09 %
Density (20 °C)	1.04 g/cm ³	1.04 g/cm ³	1.04 g/cm ³	1.04 g/cm ³
Viscosity (Thermo Fisher RS1: 10 1/s)	833 mPa·s	5369 mPa·s	4852 mPa·s	14030mPa·s
Viscosity ICI (Thermo Fisher RS1: 10000 1/s)	0.7 Poise	3.3 Poise	0.7 Poise	3.0 Poise
Viscosity Brookfield (Spindle 5 / 20 rpm)	880 mPa·s	7250 mPa·s	4000 mPa·s	1520 mPa·s
Viscosity Krebs-Stormer (200 rpm)	76.6 KU	127.3 KU	104 KU	86 KU
Yield strength (Thermo Fisher RS1)	33.62 Pa	88.90 Pa	33.62 Pa	38.00 Pa
Drying time (Drying Recorder; 23 °C) (DIN EN ISO 1522; 100µm wet film thickness on glass)	< 5 h	< 5 h	< 5 h	< 5 h
Hardness (König) (after 1 day / 7 days) (100 µm wet film thickness on glass)	16 s / 16 s	15 s / 15 s	17 s / 17 s	16 s / 16 s
Glanz Gardner (20°/ 60° angle) (100 µm wet film thickness on ABS)	68.4 / 80.8	67.7 / 80.6	69.6 / 81.3	71.0 / 82.0
Storage stability (2 weeks at 40 °C)	no significant alteration	no significant alteration	no significant alteration	no significant alteration
Sagging (sag comb)	100 µm	275 µm	0	125 µm
Levelling (level comb)	4 mm	1 mm	1 mm	0.5 mm

Suppliers

- (1) Thor (www.thor.com)
- (2) Angus Chemie (www.dow.com/angus)
- (3) Borchers (www.borchers.com)
- (4) Caldic (www.caldic.com)
- (5) BASF (www.basf.com)

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