

Eastman Optifilm™ additive OT1200:

Low VOC solution for gloss trim paint

SPF 1005

Formulation^a

Component	Weight	Description	Supplier
Water	55.9		
Orotan™ 731-A-ER	9.2	Dispersing aid	Dow Chemical
Surfynol™ CT-211	0.7	Dispersing aid	Air Products
BYK™-019	2.0	Defoamer	BYK Chemie
Acrysol™ RM-5000	3.3	Rheology modifier	Dow Chemical
Ti-Pure™ R-706	228.6	Pigment	DuPont
Disperse the above ingredients at high speed; then add:			
Primal™ HG-1000	588.3	Acrylic emulsion	Dow Chemical
Ammonia solution (25%)	1.0		
Dowanol™ DPnB	24.5	Coalescing aid	Dow Chemical
BYK™-024	3.6	Defoamer	BYK Chemie
Eastman Optifilm™ additive OT 1200	42.9	Open time aid	Eastman Chemical Company
Acrysol™ RM-5000	40.0	Rheology modifier	Dow Chemical
Total	1000.0		

^aFormulation adapted from Dow Guide formulation, "Interior/Exterior Low VOC Gloss Formulation with Eastman Texanol™ ester alcohol. Based on Primal™ HG-1000; PVC 19%. Formulation Reference G-1000-19-01."

Technical data

Property	Value	Test method
VOC (g/L)	16.5	Decopaint Directive 2004/42/EC
PVC (%)	16.0	
Wet edge time (min)	9.0	Modified ASTM (WK13360)
Open time (min)	10.0	Modified ASTM (WK13360)
Workability	Excellent	Internal test
Gloss, 20/60 degrees	54/82	BS EN ISO 2813
Scrub resistance (2/4 weeks) Loss in film thickness (µm)	2.5/0.71	BS EN ISO 11998
Blocking (1/7/21 days @ 23°C) 10 = best	8/8/9	ASTM D4946
Hardness (Konig) (1/7/21 days @ 23°C)	10/28/36	BS EN ISO 1522
Viscosity (Stormer), 23°C, KU (initial/4 weeks @ 50°C)	101/99	ASTM D562-81
Viscosity (Cone/Plate), 23°C, 10,000 sec ⁻¹ , Centi-pouises (initial/4 weeks @ 50°C)	2.5/2.6	ASTM D4287
Viscosity (Brookfield), 23°C, Spindle RV4/20 rpm, Centi-pouises (initial/4 weeks @ 50°C)	2330/2350	ASTM D2196-10
Opacity	96.80	ASTM D2805



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