

Eastman Optifilm™ additive OT1200:

Low VOC solution for satin wall paint

SPF 2009

Original formulation source:
Eastman Chemical Company

Formulation

Component	Weight	Description	Supplier
Water	82.0		
Dispex™ GA40	3.0	Dispersing aid	BASF
Ammonia solution (25%)	1.0		
Acticide™ MBS	2.0	Biocide	Thor
Foamaster™ NXZ	1.0	Anti-foam	BASF
Tiona™ 595	190.0	Pigment	Millennium Chemicals
Microdol™ H600	30.0	Filler	Omya
Disperse the above ingredients at high speed; then add:			
Bermocoll™ E 320 FQ (3% in water)	150.0	Rheology modifier	AkzoNobel
Water	4.4		
Sodium benzoate	1.0	pH regulator	
Foamaster™ NXZ	1.0	Anti-foam	BASF
Vertec™ AT33	3.0	Rheology modifier	Johnson Matthey Catalysts
Ropaque™ Ultra	70.0	Opacity enhancer	Dow Chemical
Acronal™ S 790	396.0	Styrene acrylic	BASF
BYK™-348	2.3	Wetting aid	BYK Chemie
Eastman Texanol™ ester alcohol	19.8	Coalescing aid	Eastman Chemical Company
Eastman Optifilm™ additive OT 1200	43.5	Open time aid	Eastman Chemical Company
Total	1000.0		

Technical data

Property	Value	Test method
VOC (g/L)	1.0	Decopaint Directive 2004/42/EC
PVC (%)	41.4	
Wet edge time (min)	8.0	Modified ASTM (WK13360)
Open time (min)	18.0	Modified ASTM (WK13360)
Workability	Excellent	Internal test
Gloss, 85 degrees	35.1	BS EN ISO 2813
Scrub resistance (2/6 weeks) Loss in film thickness (µm)	323/481	ASTM D2486-06
Blocking (1/7/21 days @ 23°C)	3/8/8	
Hardness (Konig) (1/7/21 days @ 23°C)	12/18/18	ASTM D4946
Viscosity (Stormer), 23°C, KU (initial/4 weeks @ 50°C)	86/87	BS EN ISO 1522
Viscosity (Cone/Plate), 23°C, 10,000 sec ⁻¹ , Centi-poise (initial/4 weeks @ 50°C)	0.7/0.8	ASTM D562-81
Viscosity (Brookfield), 23°C, Spindle RV4/20 rpm, Centi-poise (initial/4 weeks @ 50°C)	4970/4880	ASTM D4287
Mud cracking (50/100/200/1000 µm) 5°C and 23°C	No cracking	ASTM D2196-10
Opacity	96.11	ASTM D2805



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