

# Eastman Optifilm™ additive OT1200:

## Low VOC solution for matt wall paint

SPF 2008

Original formulation source:  
Eastman Chemical Company

### Formulation

Component	Weight	Description	Supplier
Water	115.2		
Dispex™ A40	4.8	Dispersing aid	BASF
Ammonia solution (25%)	1.0		
Acticide™ MBS	1.9	Biocide	Thor
Foamaster™ NDW	1.9	Anti-foam	BASF
Tiona™ 595	93.1	Pigment	Millennium Chemicals
Snowcal™ 70	205.4	Filler	Omya
Satintone™ 5HB	49.0	Filler	Imerys
<b>Disperse the above ingredients at high speed; then add:</b>			
Bermocoll™ E 320 FQ (5% in water)	261.0	Rheology modifier	AkzoNobel
Sodium benzoate	1.0	pH regulator	
Ropaque™ Ultra	67.2	Opacity enhancer	Dow Chemical
Acronal™ S 790	136.3	Styrene-acrylic dispersion	BASF
Acrysol™ TT-935	9.6	Rheology modifier	Dow Chemical
Eastman Texanol™ ester alcohol	10.9	Coalescing aid	Eastman Chemical Company
Eastman Optifilm™ additive OT 1200	41.7	Open time aid	Eastman Chemical Company
<b>Total</b>	<b>1000.0</b>		

### Technical data

Property	Value	Test method
VOC (g/L)	1.3	Decopaint Directive 2004/42/EC
PVC (%)	67.0	
Wet edge time (min)	6.0	Modified ASTM (WK13360)
Open time (min)	13.0	Modified ASTM (WK13360)
Workability	Excellent	Internal test
Gloss, 85 degrees	11.4	BS EN ISO 2813
Scrub resistance (2/4 weeks) Loss in film thickness (µm)	17.4/11.4	BS EN ISO 11998
Blocking (1/7/21 days @ 23°C) 10 = best	10/10/10	
Hardness (Konig) (1/7/21 days @ 23°C)	66/73/83	ASTM D4946
Viscosity (Stormer), 23°C, KU (initial/4 weeks @ 50°C)	116/116	BS EN ISO 1522
Viscosity (Cone/Plate), 23°C, 10,000 sec <sup>-1</sup> , Centi-poise (initial/4 weeks @ 50°C)	1.5/1.5	ASTM D562-81
Viscosity (Brookfield), 23°C, Spindle RV4/20 rpm, Centi-poise (initial/4 weeks @ 50°C)	10740/10680	ASTM D4287
Mud cracking (50/100/200/1000 µm) 5°C and 23°C	No cracking	ASTM D2196-10
Opacity	94.03	ASTM D2805



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