

Eastman Solus™ 2300 series of performance additives for high-solids compliant coatings

Driving compliance and performance

The Eastman Solus™ 2300 series of performance additives has been carefully tailored to deliver unique performance and productivity benefits to high-solids (HS) compliant coatings formulations. Derived from natural and renewable cellulose, the 2300 series is currently comprised of one commercial product (Eastman Solus™ 2300) and two developmental performance additives (DPA).

Properties					
	Appearance	Solid (%)	Polymer density (kg/L)	Hydroxyl content (%)	T _g (°C)
Eastman Solus™ 2300	White powder	100	1.2	1.5	112
DPA 2301	White powder	100	1.2	1.5	117
DPA 2302	White powder	100	1.2	1.5	119
CAB 381-0.1	White powder	100	1.2	1.3	123



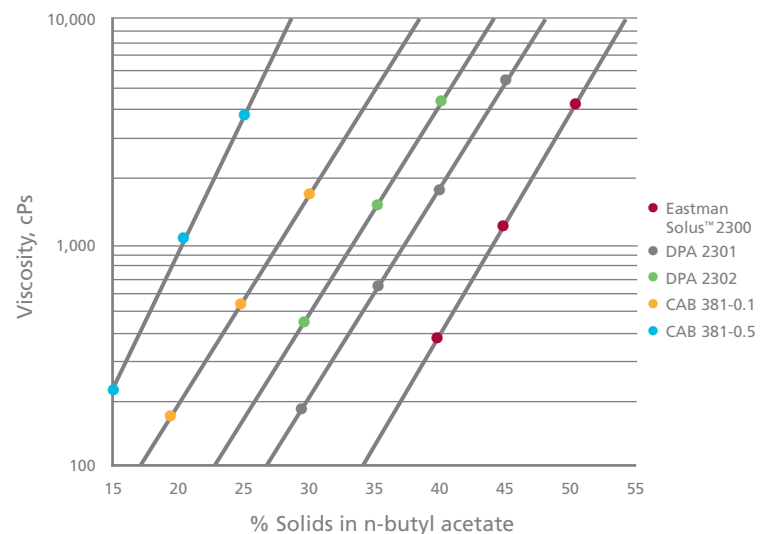
Products

- Eastman Solus™ 2300
- DPA 2301
- DPA 2302

Benefits

- Optimized flake control/brightness
- Improves productivity by enabling higher solids
- Enhanced distinctness of image (DOI)
- Offers superior anti-sag behavior
- Improved re-dissolve and strike-in resistance
- Reduces dry-to-touch times

Viscosity (cPs at 100 sec ⁻¹ and 40% solids)					
	PMOAc	nBuOAc	MeOAc	MPK	MEK
Eastman Solus™ 2300	580	430	67	81	43
DPA 2301	2,550	1,620	350	340	180
DPA 2302	6,950	4,420	910	870	530
CAB 381-0.1	28,000	18,800	4,560	3,760	2,120



The graph illustrates the viscosity spectrum for Eastman Solus™ 2300 series of performance additives compared with traditional CABs. Specifically targeted to deliver the benefits of compliant coatings formulations, these 2300 series products drive performance and productivity at higher solids levels.

Resin compatibility: solution

Solution	1 ^a	1 ^b	2 ^c	2 ^d	3 ^e	3 ^f	4 ^g	4 ^h	5 ⁱ	5 ^j
Eastman Solus™ 2300	C	C	C	C	C	C	C	C	C	C
DPA 2301	C	C	C	C	C	C	C	C	C	C
DPA 2302	C	C	C	C	C	C	C	C	C	C
CAB 551-0.01	C	C	C	C	C	C	C	C	C	C

1 Acrylic polyol	Acrylamac HS232-2980 (90/10 ^a and 80/20 ^b)
2 Acrylic polyol	Setalux 1903 BA-75 (90/10 ^c and 80/20 ^d)
3 Acrylic polyol	Macrynal SM 515/70 (90/10 ^e and 80/20 ^f)
4 Polyester polyol	Setal 1603 BA-78 (90/10 ^g and 80/20 ^h)
5 Acrylic resin	Paraloid B-66 (90/10 ⁱ and 80/20 ^j)

Resin compatibility: cast film

Cast film	1 ^a	1 ^b	2 ^c	2 ^d	3 ^e	3 ^f	4 ^g	4 ^h	5 ⁱ	5 ^j
Eastman Solus™ 2300	VSH	SH	C	C	VSH	VSH	C	C	C	C
DPA 2301	VSH	SH	C	C	VSH	VSH	C	C	C	C
DPA 2302	VSH	SH	C	C	VSH	VSH	C	C	C	C
CAB 551-0.01	VSH	SH	C	C	VSH	H	C	C	C	C

Rating scale

C	Compatible and clear
VSH	Very slightly hazy
SH	Slightly hazy
H	Hazy

For more information, visit www.eastman.com/solus.

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