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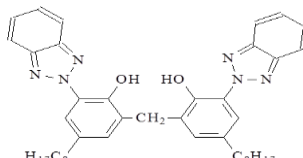
DATE PREPARED: January /25/2011

DATE REVISED:

## Fine particle water borne dispersion UVA ADEKA NOL UC-3140, UC-3125

UC-3140 and UC-3125 are fine particle water borne dispersions of UVA. They have a good dispersing ability in water borne coating systems and give an excellent durability for various resins without inhibition of gloss. ADEKA NOL UC-3140 and UC-3125 are Alkyl phenol ethoxylate free.

### Physical properties

	Water borne UVA	
	ADEKA NOL UC-3140	ADEKA NOL UC-3125
Structure of UVA	 <p style="text-align: right;">(ADEKA STAB LA-31)</p>	
Active ingredient	40%	25%
Appearance	White milky liquid	White milky liquid
Viscosity (mPa·s/25°C)	2300	50
pH (2.5%aq)	6.0	6.0
Average particle size (nm)	120	60
Application	DIY, semi clear coating	Clear coating

### Characteristics

- A good dispersing ability in water borne coating systems and less influence to initial gloss of the coating film.

#### [ Transparency of Coating Film ]

- Fine particle and good stability of the dispersion

They can be added by:

- 1) Mixing it with the latex emulsion.
- 2) Mixing it with the finished product (let down process).



UC-3140



UC-3125

Almost transparency

High transparency

### 3. Evaluation

#### Durability test (Q-UV)

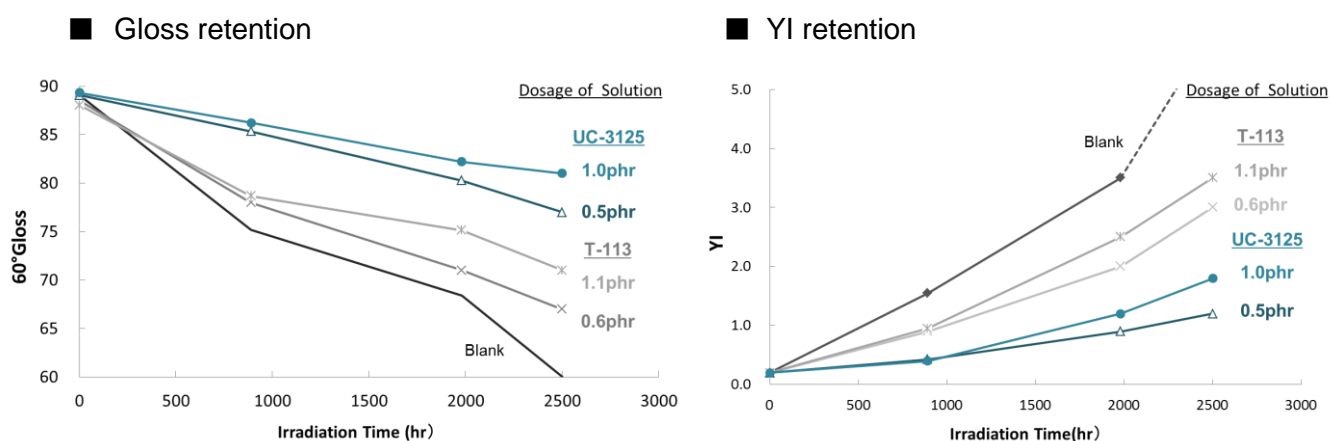
Paint: Acrylic clear paint

Sample: UC-3140, UC-3125, T-113 (Conventional water dispersible UVA)

Method: Each light stabilizer is added to the paint and dispersed for 5 minutes by 2000 rpm. Then, it is coated on a paint board, and is baking at 120 deg C for 30 min after dried r.t. for 10 min. Durability (60° gloss) and Yellow index (YI) were measured after weathering at Q-UV.

Results:

\*T-113: Conventional water dispersible UVA.



Ac clear coating, dosage is as solution on the resin of the coating, film=30μm

Q-UV : JIS K 5600-7-8:1999(ISO/FDIS 11507:1997) BP65°C, WP60°C

#### Conclusion

UC-3125 shows better gloss with the dosage of 1/2 than common T-113.

UC-3125 shows better yellow index than common T-113.