



THAI MITSUI SPECIALTY CHEMICALS CO.,LTD.

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OLESTER QM532/QM1526

GENERAL

OLESTER QM 532 and QM1526 are acrylic polyol urethane coating for motorcycle application which was developed for one coat one baking system (Monocoat). QM1526 supplies property such as aluminum orientation, gasoline resistance.

1. FEATURES

- High Gloss
- Good Hardness
- Good Adhesion
- Good Workability and metal orientation
- Good flexibility and chemical resistance

2.TYPICAL PROPERTIES

ITEM	QM532	QM1526
Appearance	Clear liquid	Clear liquid
Non volatile (%)	67 ± 2.0	50 ± 2.0
Viscosity (GH/25°C)	Y~ Z4	T~ X
Acid value (KOHmg/g)	7~10	3.5~5.5
OH value (Solid)	90	54
Solvent	Xylene/n-BACe /PMAc 70 / 20 / 10	Xylene / n-BACe / PMAc 65 / 20 / 15

3. COMPATIBILITY (5% as solid)

QM532/QM1526=75/25 solid ratio

	Varnish	Dry Film
1/2 CAB	Good	Good
NC	Good	Good

4. TEST CONDITION

4.1 Formulation: (Metallic)

OLESTER QM532	69.1 (Part by weight)
OLESTER QM1526	30.9
Aluminium paste	5.9 (PWC = 5%, NV Al-paste = 74%)
Thinner *	80.0
BYK 300	0.4
Desmodur N3300 **	17.2 (OH / NCO = 1 / 1)

Viscosity 12 -15 sec. (Ford cup #4)

*) Thinner ; Xy / n- BACe/ PMAc/ Solvesso150 = 3 / 3 / 3 / 1

**) Bayer, HDI nurate type ; NV = 100 % , NCO = 21.8%

4.2 Coating Method

Air spray

Film thickness : 30 - 40 μm

4.3 Test panel

ABS (wipe by IPA)

4.4 Standard coating schedule

Spray coat (one coat) → setting 10mins → Baking 80°C x30 mins

5. TEST RESULTS

Appearance	Excellent
Gloss 60°	95 ~ 104
Gloss 20°	85 ~ 95
Hardness (by pencil)	
Initial Hardness	B
Final Hardness (3 day)	F
Physical properties	
Dupont impact 1/2 inch*500 g (cm)	50
Adhesion	100/100
Chemical resistance	
Gasoline (drop for 30 mins)	Good
XY Rubbing (wipe 50 times)	Good

Remark : Measure 1 day after coating , except gasoline test after 3 days.

(31 October 2007)