



THAI MITSUI SPECIALTY CHEMICALS CO.,LTD.

บริษัท ไทยมิทซึสเปเชียลตี้เคมีคอล จำกัด

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U-VAN 20SE60

GENERAL

U-VAN 20SE60 is n-Butylated melamine formaldehyde resin This resin is used as a cross linking agent for various polymers containing hydroxyl,carboxyl and amide groups.

U-VAN 20SE60 is applied for automobiles, electric appliance, pre-coat metal and general metal finishes.

FEATURE

1. Excellent workability over a wide range of baking condition
2. Good stability
3. Good compatibility
4. Good chemical resistance

APPLICATION

Automobiles Base coat
Electric Appliance
General metal finishes

TYPICAL PROEPRTY

Appearance	Clear
Color (APHA)	<H-30
Non-Volatile (% ,105°Cx3Hrs.)	60±2
Viscosity (Gardner-Holdt,25°C)	G~N
Acid Value (KOHmg/g, varnish)	<1
Solvent	n-butanol Xylene

Film properties

Formulation 1 (Amino-alkyd)

Coconut Oil Alkyd(NV60%)	117g
U-VAN20SE60	50g
Titanium Dioxide	42g

Substrate : Bondelite #144 treated cold-rolled steel

Paint Viscosity : Ford cup(No.4) 22-25sec(25□)

Thinner : Xylene/n-BuOH =70/30 (weight ratio)

Coating Method : Air spray

Baking Condition: 130,150X20min

Test Result

	130	150
Film Thickness (μ)	30	31
Pencil Hardness	2H	2H
Gloss(60)	95	92
Erichsen(mm)	6.0	5.7
Dupont Impact (1/2 inch 500g)	>50cm	>50cm
Chemical Resistance		
3%NaOH 8hrs	No Change	No Change
3%H ₂ SO ₄ 8hrs	No Change	No Change

Formulation 2 (Amino-acryl)

ALMATEX787*1	117 g
U-VAN20SE60	33.3g
EPOMIK R301	16.7g (60% in MIBK)
Titanium Dioxide	53g

*1 Almatex 787 Acrylic Resin of Thai Mitsui Specialty Chemicals

*2 EPOMIK R301 Epoxy Resin of Mitsui Chemicals,INC.

Substrate Bondelite #144 treated cold-rolled steel

Paint Viscosity Ford cup(No.4) 22-25sec(25□)

Thinner: Xylene/n-BuOH =70/30 (weight ratio)

Coating Method: Air spray

Baking Condition 150,160X20min

TEST RESULT

Baking Condition	150	160
Film Thickness (μ)	30	31
Pencil Hardness	2H	2H
Ericsen(mm)	4.5	4.7
Dupont Impact (1/2 inch 500g)	20cm	35cm
Stain Resistance		
Magic Ink Blue	Good	Excellent
Red	Good	Excellent
Black	Good	Excellent

(30 November 2007)