



# ***TMSC Products for Coating***

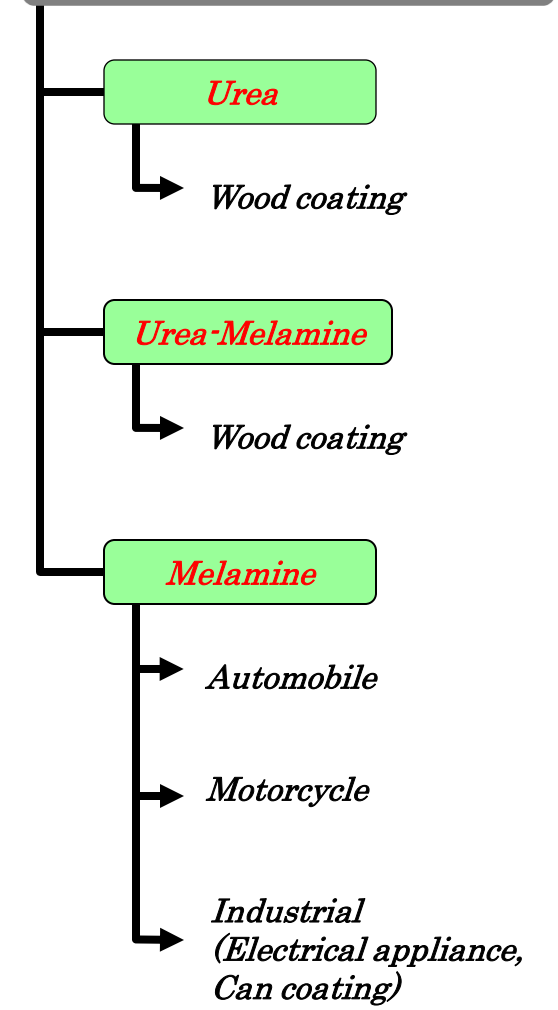


***Thai Mitsui Specialty Chemicals Co., Ltd.***

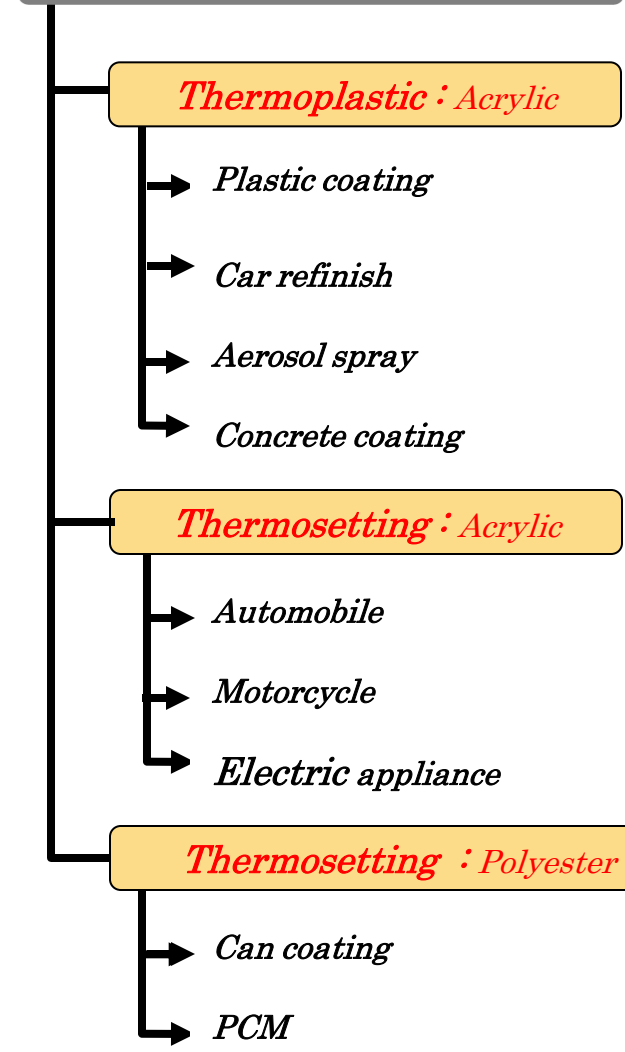
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# Out line of TMSC products

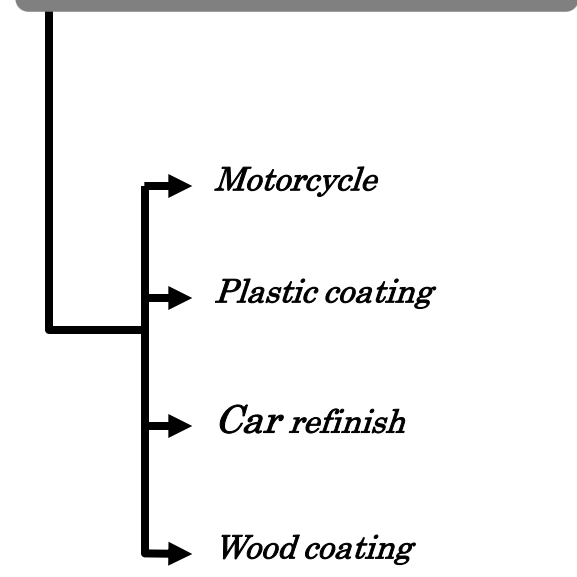
## U-VAN : Amino Resin



## ALMATEX : Acrylic & Polyester



## OLESTER : Acrylic polyol



# U-VAN (Amino Resin)

## Acid Cure type

Grade	Solvent	Type	Viscosity (GH/25°C)	Solid	Acid Value (KOHmg/g)	Free Formalin (%)	MS solubility (cc/g, 20°C)	Main application and Characteristic	
<b>10M</b>	iso-Butanol	80	iso-Butylated Urea	W ~ Z	60 %	< 2	< 1 %	2 ~ 5	Wood coating. (Fast curing).
	Methanol	10							
	Xylene	10							
<b>236</b>	iso-Butanol	90	iso-Butylated Urea-Melamine	Z2 ~ Z5	65 %	< 2	< 1 %	1 ~ 5	Wood coating (Good Water Resistance).
	Methanol	10							
<b>239</b>	iso-Butanol	70	iso-Butylated Urea-Melamine	Z3 ~ Z5	65 %	< 2	< 0.5 %	1 ~ 5	Wood coating (Low smell. Fast dry.)
	Methanol	20							
	Xylene	10							

## Baking type

Grade	Solvent	Type	Viscosity (GH/25°C)	Solid	Acid Value (KOHmg/g)	Free Formalin (%)	MS solubility (cc/g, 20°C)	Main application and Characteristic	
<b>20SE60</b>	n-Butanol	60	n-Butylated Melamine	G ~ N	60 %	< 1	1.0 ~ 2.0	8 ~ 15	Electric appliances, Automobile and PCM (Standard type. Good balance of property)
	Xylene	40							
<b>128</b>	n-Butanol	60	n-Butylated Melamine	J ~ M	60 %	< 1	1.0 ~ 1.5	9 ~ 14	Electric appliances, Automobile and PCM (Low temperature baking.)
	Xylene	40							
<b>62E</b>	iso-Butanol	85	iso-Butylated Melamine	M ~ U	60 %	< 1	1.5 ~ 2.5	10 ~ 20	General purpose metal coating. (Standard type for general use).
	Xylene	15							

MS : Mineral Spirit

Viscosity : Gardner air bubble viscometer

# ALMATEX (Acrylic & Polyester Resin)

## Thermoplastic Type

Grade	Solvent	Viscosity (GH/25°C)	Solid	Acid Value (KOHmg /g)	Tg (°C)	Compatibility (5% solid)			Film property				Main application and Characteristic	
						NC	CAB	Gloss	Hardness	Weather rst.	Alcohol rst.	Gasoline rst.		
<b>L2058</b>	Toluene	70	Z1 ~ Z3+	50 %	0.5 ~ 2.5	51	Good	Poor	60 ~ 70	F	Fair	Fair	Poor	Plastic coating (Standard type)
	iso-Butanol	20												
	Butylcellosolve	10												
<b>L1093T</b>	Toluene	90	X ~ Z3	51 %	< 1	53	Good	Poor	60 ~ 70	H	Fair	Excellent	Poor	Plastic coating (Alcohol resistance)
	iso-Butanol	10												
<b>L9090</b>	Xylene	70	Z1 ~ Z4	55 %	1 ~ 3	57	Poor	Good	85 ~ 95	HB	Fair	Poor	Good	Car refinish, Aerosol spray (Gasoline resistance)
	Toluene	30												
<b>L7001T</b>	Xylene	80	Z1 ~ Z5	60 %	3 ~ 6	61	Poor	Poor	90 ~ 100	HB	Poor	Excellent	Poor	Aerosol spray. (High gloss. Alcohol resistance)
	n-butyl acetate	20												
<b>L5490T</b>	Solvesso#100	60	Z4 ~ Z7	55 %	< 1	63	Poor	Good	80 ~ 90	HB	Excellent	-	-	Cement roof tile/top coat (Weather resistance)
	Solvesso#150	40												
<b>L5446T</b>	Solvesso#100	90	Z2 ~ Z5	55 %	< 1	38	Poor	Poor	90 ~ 100	F	Poor	-	-	Concrete coating / primer (Economic, High gloss)
	Xylene	10												

# ALMATEX (Acrylic & Polyester Resin)

## Thermosetting type (Acrylic resin)

Grade	Solvent	Viscosity (GH/25°C)	Solid	Acid Value (KOHmg/g)	Tg (°C)	Film property					Main application and Characteristic	
						Gloss	Hardness	Flexibility	Adhesion	Salt spray (72hrs.)		
<b>787</b>	Xylene n-butanol	90 10	Y ~ Z2	55 %	6 ~10	16	Excellent	2H	Excellent	Excellent	Excellent	Electric appliance (Good workability)
<b>B341</b>	Xylene i-butanol	80 20	X ~ Z	65 %	10 ~14	27	Good	2H	Excellent	Excellent	Excellent	Motorcycle / Base coat (Gasoline resistance)
<b>C202</b>	Solvesso#100 n-butanol	80 20	X ~ Z1	70 %	12~15	20	Excellent	2H	Excellent	Excellent	Excellent	Motorcycle / Top coat (High gloss Gasoline resistance)
<b>C408</b>	Xylene n-butanol	82 18	V ~ Z	50 %	1~4	50	Good	H	Excellent	Excellent	Excellent	Motorcycle for one coat metallic coating, audio flame

## Thermosetting type (Polyester resin)

Grade	Solvent	Viscosity (GH/25°C)	Solid	Acid Value (KOHmg/g)	Film property						Main application and Characteristic	
					Gloss	Hardness	Flexibility	Impact resistance	Weather resistance.	Boiling resistance.		
<b>P646</b>	Solvesso#100 MIBK	90 10	W ~ Z	60 %	3 ~ 7	80 ~90	2H	Excellent	Excellent	Excellent	Excellent	PCM Can coating / base coat
<b>CP99-5</b>	Solvesso#100 PMAc	50 50	R~ V	50 %	3 ~ 6	80 ~90	H	Excellent	Excellent	Excellent	Excellent	Can coating / base coat (Flexible type)

# OLESTER (Acrylic Polyol Resin)

*Clear paint (Car refinish, Plastic, Wood, Aluminum)*

Grade	Solvent	OHV /Solid ( KOH mg / g )	Viscosity (GH/25 °C)	Solid	Acid Value ( KOH mg/g )	Tg (°C)	Compatibility (5% solid)		Film property			Main application and Characteristic		
							NC	CAB	Gloss	Hardness	Weather rst.		Gasoline rst.	
Q700	Xylene	50	120	Y ~ Z1	60%	5 ~ 7	70	Good	Poor	90 ~100	2H	Fair	Excellent	2 : 1 Car refinish. Plastic. (High Gloss, chemical resistance)
	Solvesso#100	25												
	n-Butyl acetate	25												
Q171X	Xylene	80	95	U ~ X	50%	2 ~ 4	81	Good	Poor	90 ~100	2H	Fair	Excellent	4 : 1 Car refinish. Plastic (High gloss, High hardness)
	n-Butyl acetate	20												
Q193X	Xylene	80	40	V ~ Z	50%	1 ~ 3	46	Poor	Good	80 ~90	H	Excellent	Fair	6 : 1 Car refinish, General. (Weather resistance , fast dry)
	n-Butyl acetate	20												
QR331T	Xylene	75	80	Z2~Z5	70%	6 ~ 9	72	Good	Poor	90 ~100	H	Fair	Good	Plastic, General purpose (High solid, High gloss)
	PMAc	25												
QR411T	Toluene	50	64	T ~ X	50%	5.5 ~ 7.5	54	Good	Good	80 ~90	2H	Good	Good	Aluminum coating (Good metal adhesion)
	n-Butyl acetate	30												
	Xylene	20												
Q166	Xylene	80	60	Y ~Z3	50%	2 ~ 5	54	Good	Good	80 ~90	2H	Excellent	Good	Wood , Plastic, General. (Fast dry, High hardness)
	MIBK	20												
QR202	Xylene	90	75	Z1~Z4	60%	4 ~ 7	75	Poor	Poor	90 ~100	F	Fair	Fair	Wood, Plastic, General. (High gloss, economic)
	PMAc	10												

# OLESTER (Acrylic Polyol Resin)

## Metallic coating (Motorcycle)

Grade	Solvent	OHV /Solid (KOH mg/g)	Viscosity (GH/25 °C)	Solid	Acid Value (KOH mg/g)	Tg (°C)	Compatibility (5% solid)		Film property				Main application and Characteristic	
							NC	CAB	Gloss	Hardness	Weather st.	Gasoline st.		
QB510	Xylene	80	60	U ~ Y	65%	5.3~7.3	30	Good	Good	80~90	F	Good	Good	Metallic base coat / 2C1B (Good aluminum orientation)
	i-Butyl acetate	20												
QC417-5	Solvesso#100	80	100	X ~ Z1	60.5%	4.5~6.5	65	Good	Good	90~100	H	Excellent	Good	Clear top coat / 2C1B (High gloss, High hardness)
	n-Butyl acetate	20												
QM532	Xylene	70	90	Y ~ Z4	67%	7~10	60	Good	Good	90~100	F	Good	Good	One coat metallic paint (Good film appearance)
	n-Butyl acetate	20												
	PMAc	10												
QM1526	Xylene	65	54	T ~ X	50%	3.5~5.5	27	Good	Good	-	-	-	-	Improve aluminum orientation (QM532 : QM1526 = 70 : 30 by solid)
	n-Butyl acetate	20												
	PMAc	15												

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