

產協企業股份有限公司**CHAN SIEH ENTERPRISES CO., LTD.**

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V1.2f

Technical Data Sheet**WA-350**

Water-based Acrylic resin

1. SPECIAL FEATURES

WA-350 is an environmentally friendly water-based acrylic resin with excellent dispersity in water, it has good adhesion, fullness, and high gloss, hardness, also good in impact, solvent resistance.

2. APPLICATION

Curing with Melamine for glass baking paint, metal baking paint, curing with isocyanate for low temp. plastic paint.

3. CHARACTERISTICS OF THE RESIN

ITEM	UNITE	RESULT
Appearance		Light yellow in transparent
Color		Max. 2
Solid Contain	%	65±1
Viscosity	mPa·s in 25 °C	15,000~30,000
Tg	°C	68 (1)
pH value		3~5
Acid value	mgKOH/g	≤ 50 (2)
OH value	mgKOH/g	50
Co-solvent		BCS

(1) DSC(METTLER) (2) ISO 3682

4. PACKAGE

50 or 200 Kg/drum

5. STORAGABILITY

Stored in a cool and dry place with adequate ventilation

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6. REFERENCE FORMULATION (waterborne glass paint)

Item	Weight (g)	Name	Supplier	Note
Resin	40	WP-350 (65%)	Chansieh	Acrylic resin
Neutralizer	1.6	DMEA		
Melamine	10.2	Cymel 303	Allnex	
Leveling	0.5	EFKA 3772	BASF	
Defoamer	0.2	BYK-028	BYK	
Defoamer	0.2	104E		
Wetting	0.3	270	TEGO	
White paste	50	No resin S.C.70%	Lab. made	
Water	20	H ₂ O		By viscosity
BCS	5			By viscosity
Silane	2	KBM-403		Add before mix
100				

1. WA-350-65%/Cymel 303=75/25 (Solid ratio)

2. P/B=1/1

3. pH=7.5~8.5 (by DMEA or AMP-95)

Film property

Item	Result	Note
Film thickness	20 ±2μm	
Gloss(60°)	> 94	ASTM D-523
Hardness of coating	2H	GB 6739
Cross cut Test	5B	ASTM D3359-02
Solvent resistance Test	>100 times	MEK
Alcohols resistance Test	≥ 2hr	95% Ethanol
Acid resistance Test	≥ 48hr	HCL 5%
Alkaline resistance Test	≥ 24hr	NaOH 2%
Water resistance Test	≥ 48hr	Water

Coating condition

1. Viscosity = 22 ±2s (NK-2 Cup)

Baking condition

150°C×30 mins or 170°C×20 mins

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