

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

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3F.,90, SEC. 2, NANKING. E. RD. TAIPEI, TAIWAN R.O.C.

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V1.2f

## Technical Data Sheet

**WP-546**

Water-based Polyester resin

**1. SPECIAL FEATURES**

Excellent water dispersibility, good adhesion on metal, high gloss, fullness, and balanced hardness-flexibility performances, and weathering durability, hot water resistant.

**2. APPLICATION**

Using crosslinking with amino hardeners for, coil, metal , Baking paint for Metal.

**3. CHARACTERISTICS OF THE RESIN**

ITEM	UNITE	RESULT
Appearance		Light colored clear
Color		Max. 2
Solid Contain	%	70±1
Viscosity	mpas in 25 °C	13,000~23,000
Tg	°C	40 (1)
pH value		3~5
Acid value	mgKOH/g	≤ 40 (2)
OH value	mgKOH/g	40~50 (3)
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 (White Baking Paint for metal)

Item	Weight (g)	Name	Supplier	Note
Resin	40.3	WP-546 (70%)	Chansieh	
Neutralizer	1.0	DMEA		
Melamine	7.1	Cymel 303	Allnex	
Weting	0.3	TEGO 270	TEGO	
Leveling	0.5	EFKA 3772	BASF	
Defoamer	0.2	BYK-028	BYK	
Defoamer	0.2	104E	Air product	
White paste	50.4	No resin S.C.70%	Lab. made	
BCS / PMA				By viscosity
Water		H <sub>2</sub> O		By viscosity
100				

### Film property

Item	Result	Note
Film thickness	15 ±2 μm	
Gloss(60°)	> 90°	
Hardness of coating	H	
Impact test (1/5in-1kg-50cm)	Pass	
Cross cut Test	5B	
Solvent resistance Test	30 ~ 40 time	MEK
Hot water resistance Test	Pass	100°C × 2h

#### Coating condition

1. Viscosity = 25 ± 2s (NK-2 Cup)

2. Substrate : Tinplate

#### Baking condition

150 ~ 160°C × 30min ◦

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