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Technical imformation

EPOKEY 820-40CX

EPOKEY 820-40CX is the high molecular weight epoxy resin used as a primer especially for PCM. As this product is modified by blocked isocyanate to make cross-linking, it shows performance fully by baking. (Heat initiate over 150℃).

FEATURES

- Excellent workability : one component
- Excellent adhesion for metal
- Excellent corrosion resistance
- Excellent chemical resistance

◆ SPECIFICATION

	820-40CX	
Appearance Non-Volatile (%) Viscosity (GH/25°C)	Clear, Yellow 40 <u>+</u> 1.5 T ~ X	
Internal solvent (%) Xylene PMA n-Butanol MA	40 27 20 13	

MA : 3-Mehoxy butyl acetate

PMA : Propylene glycol mono methyl ether acetate

◆ FILM PROPERTY TEST

Formulation (primer)	
EPOKEY 820-40CX	60.0
TiO2	12.0
Zinc Potassium Chromate	6.0
Strontium Chromate	6.0
Thinner *	16.0

Thinner *: Xylene / PMA / n-butanol = 50 / 25 / 25

Disperse by paint shaker Add thinner to adjust viscosity 12 ~ 15 sec/IWATA

Formulation (top coat)

ALMATEX P646 / U-Van 20SE60 / EP#1001 = 80 / 15 / 5 by solid

<a href="mailto: Grinding Base>	
Almatex P646	15.0
TiO2	2.0
Dye (Phthalocyanine Blue)	10.0
Dye (Phthalocyanine Green	1.5
Thinner **	7.0

Be dispersed by tree roller mill

< Let down >	
Grinding Base	38.0
Almatex P646	35.0
U-Van 20SE-60	14.3
EP#1001 (50%/XY)	8.6
Thinner **	12 ~15 sec/IWATA

Thinner **:

SOL#150/n- butanol / Butyl cellosolve / MIBK =30 /10/30 /30

Coating Schedule

<Primer coating>

 Substrate
 : BNT#3300 (t=0.3mm)

 Setting
 : 10sec + curing:280℃/30sec

Thickness : $4-5 \mu / dry$

<Top coating>

: 10sec + curing:280℃/50sec Setting

: 13-15 *μ* /dry Thickness

Test Results

	Result
< Physical Properties >	
Pencil Hardness	H ~ 2H
Cross cut adhesion	100/100
Du Pont Impact	
(1/2'∅, 1kg)	>50cm
<corrosion resistance=""></corrosion>	
Salt Spray test	
500Hrs	Excellent
1000Hrs	Excellent
<bending test=""></bending>	
0Т	Good
1T	Excellent
2T	Excellent

♦SOLVENT TOLERANCE

Solvent	ml / g	Solvent	ml/g
IPA n-butanol Ethyl acetate Butyl acetate MEK MIBK Cyclohexanone	0.5 0.6 0.6 0.4 2.8 0.6 ∞	PMA PE PEAC Cellosolve acetate Ethyl cellosolve Butyl cellosolve	2.0 4.5 0.4 ∞ ∞
Xylene / PMA / Cyclohexanone / n-butanol = 4 / 2 / 2 / 2 Xylene / PEAC / n-butanol = 4 / 4 / 2 Xylene / MA / n-butanol = 4 / 4 / 2			& & & &

PMA : Propylene glycol mono methyl ether acetate

PE : Propylene glycol mono ethyl ether

PEAC : Propylene glycol mono ethyl ether acetate

The Information in this instruction sheet, given in good faith, is based on results gained from experience and tests. However, all recommendation or suggestion are made without guarantee, since the conditions of use are beyond our control. Specification are subject to change without notice.