



## Acrylic Polyol Polyurethane Coating

ETERAC 7331-1-XS-70 is a hydroxyl functional acrylic copolymer designed to crosslink at room temperature with polyisocyanate adducts. This resin has been primarily developed to produce two packs system with the following outstanding features.

- Excellent chemical and stain resistance
- Excellent adhesion
- Excellent leveling properties
- High gloss
- Excellent pot life

### SPECIFICATION

Appearance	Clear / Clean
Color (APHA@ 25°C)	<50
Viscosity (Gardner 25°C)	Z <sub>3</sub> - Z <sub>5</sub>
Solid Content, % (150°C x 1h x 0.7g)	70 ± 1
Hydroxyl Value (mg KOH/g, solid)	100 ± 5
Acid Value (mg KOH/g, solid)	7.5~11.5
Solvent	Xylol / Butyl acetate

## SUGGESTED FORMULATION

### I. PU top clear

#### Part A

ETERAC 7331-1-XS-70	72.0
Cellosolve acetate	6.0
Butyl acetate	4.0
Xylene	15.2
BYK-331(50% in Xylene)	0.5 (Slip Agent)
BYK-066	0.2 (Defoamer)
5% DBTL	0.1
Toluene	2.0
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	100.0

#### Part B

Desmodur N-3390	40.0
Cellosolve acetate	15.0
Butyl acetate	15.0
Xylene	30.0
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	100.0

Eormulation Ratio

Part A / Part B = 2.0/1.0

### II. PU top (White)

#### Part A

ETERAC 7331-1-XS-70	57.0
Titanium dioxide (Rtyre)	25.0
Barium sulfate	2.0
Anti-Settling agent (1)	0.4
BYK-066	0.2 (Defoamer)
Cellosolve acetate	2.0
Butyl acetate	1.0
Xylene	5.0
-----Dispersed by three rollmill to 7 hegman-----	
BYK-331 (50% in Xylene )	0.5 (Slip agent)
5% DBTL	0.1
Toluene	2.0
Xylene	4.8
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	100.0

Part B

Desmodur N-3390	31.0
Cellosolve acetate	17.0
Butyl acetate	17.0
Xylene	<u>35.0</u>
	100.0

Formulation ratio

Part A / Part B = 2.0 / 1.0

Pigment / Binder = 1.0 / 1.48

Remark :

(1) Anti-Settling Agent

Anti-terra-u (BYK)	5.0
Bentone 38	10.0
Xylene	<u>85.0</u>
	100.0

Mix till turn paste

(2) PU thinner

Xylene	30.0
Toluene	35.0
Solvesso 100	10.0
Butyl acetate	10.0
Cellosolve acetate	<u>15.0</u>
	100.0

## TYPICAL PERFORMANCE DATA

### I. Clear Enamel : Spray on Cold roll steel treated with . Bonderlite #144

Spray viscosity : Ford Cup #4 18"-22" 25°C

Dry film thickness 30~35μ

Baking 60°C x 30 mins. and 7 days setting at 25°C

#### Drying Time :

Set to touch (min)	24
Tack free (min)	42
Dry hard (min)	110

Hardness (pencil)	H
Gloss (20°/60°)	105/125
Impact (1/2 inch, 1000g)	50 cm
Adhesion	100/100

#### Resistance to

Alcohol (25°C/dip/24hrs)	Excellent
Gasoline (25°C/dip/24hrs)	Excellent
MEK (double rub/time)	~60

### II. White Enamel : Spray on Cold roll steel treated with Bonderlite #144

Spray viscosity : Ford cup #4 18"-22" 25°C

Dry film thickness 30~35μ

Baking 60°C x 30 mins. and 7 days setting at 25°C

#### Drying Time :

Set to touch (min)	21
Tack free (min)	55
Dry hard (min)	216

Hardness (pencil)	H <sup>+</sup>
Gloss (20°/60°)	90/96
Gloss retention	> 90%
Impact (1/2 inch, 1000g)	50cm
Adhesion	100/100

#### Resistance to

Alcohol (25°C/dip/24hrs)	Excellent
Gasoline (25°C/dip/24hrs)	Excellent
MEK (double rub/time)	~100
Gloss retention (1000 hrs)	~90%

The information contained herein is correct to the best of our knowledge. The recommendations or suggestions contained in this bulletin are made without guarantee or representation as to results. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material.