

***POLYURETHANE DISPERSION FOR SURFACE COATING***

ETERANE 8925 is an anionic type waterborne polyurethane dispersion offering excellent gloss and hardness. ETERANE 8925 composed of aliphatic isocyanate is suitable for woodcoat, vinyl topcoats, overprint varnish, ink vehicles and textile. It can be used alone or by adding crosslinking agents such as triisocyanates, aziridines or carbondiimines cured at room temperature.

**PERFORMANCE :**

- Low Voc, low toxicity
- Good water resistance
- Good gloss and hardness
- Good film strength

**SPECIFICATION**

Appearance	Translucent
Solid content	35±1%
pH	7-8
Partical charge	Anionic
Viscosity	≤500 cps
Specific weight, 25°C	1.03 g/cm <sup>3</sup>
Tensile strength	4000 psi
Elongation	220%
Hardness (shore D)	70

## suggested formulation

### (1)WATER BORNE FILLER

BYK-025	0.50
BYK-190	4.38
H2O	17.52
UMBER BU-5002 ( Burnt Umber, DEUCHEM)	2.00
TALC	20.00
CLAY	10.00
UH-420 ( Thickeners, Asahidanca)	1.60
ETERANE 8925	40.00
HIGH SPEED AGITATION TO FINENESS , THEN ADD THE FOLLOWING SLOWLY UNDER AGITATION.	
PROPYLENE GLYCOL MONO-METHYL ETHER	<u>4.00</u>
100.00	
N.V. : 47.8%	
VIS. : 1510CPS/25°C NO.3 60RPM	

### (2)WATER BORNE GLAZE

BYK-025	0.50
BYK-022	0.20
BYK-190	3.00
H2O	16.65
UMBER BU-5002 ( Burnt Umber, DEUCHEM)	2.00
TALC	15.00
UH-420 ( Thickeners, Asahidanca)	2.00
ETERANE 8925	50.00
HIGH SPEED AGITATION TO FINENESS , THEN ADD THE FOLLOWING PRE-MIXTURE SLOWLY UNDER AGITATION.	
H2O	6.65
PROPYLENE GLYCOL MONO-METHYL ETHER	<u>4.00</u>
100.00	
N.V.: 36.4%	
VIS.: 1300CPS/25°C NO.3 60RPM	

### (3)WATER BORNE WOOD PRIMER COAT

BYK-025	0.30
BYK-022	0.40
BYK-190	1.00
H2O	3.40
TALC	5.00
UH-420 ( Thickeners, Asahidanca)	1.50
ETERANE 8925	66.70
HIGH SPEED AGITATION TO FINENESS , THEN ADD THE	

FOLLOWING PRE-MIXTURE SLOWLY UNDER  
AGITATION.

PROPYLENE GLYCOL MONO-METHYL ETHER	6.00
H <sub>2</sub> O	<u>15.70</u>
	100.00

N.V.: 29.6%

VIS.: 505CPS/25°C NO.2 30RPM

(4) WATER BORNE WOOD TOP COAT

BYK-025	0.20
BYK-022	0.20
BYK-346	0.50
BYK-333	0.40
UH-420 ( Thickeners, Asahidanca)	1.50
ETERANE 8925	82.00

HIGH SPEED AGITATION TO HOMOGENEOUS , THEN ADD THE  
FOLLOWING PRE-MIXTURE SLOWLY UNDER AGITATION.

PROPYLENE GLYCOL MONO-METHYL ETHER	7.60
H <sub>2</sub> O	<u>7.60</u>
	100.00

N.V.: 29.8%

VIS.: 514CPS/25°C NO.2 30RPM

(5) ETERANE 8925 PERFORMANCE

COATED ETERANE 8925 ON WOOD,ADD FOLLOW LIST MATERIAL,CHECK  
FILM CHANGE AT ROOM TEMPERATION AFTER 24HRS :

MATERIAL	CLASS	MATERIAL	CLASS
10% NaOH	4	lubricant	5
0.1N H <sub>2</sub> SO <sub>4</sub>	5	detergent	5
10% HCl	3	lemon juice	5
HOT WATER 70°C	5	soy sauce	5
butter	5	rice wine	5
lube	5		
salad oil	3		

5 : excellent      0 : poor

---

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.