

# 25-2175 (AEKYUNG AK-75) AROMATIC POLYISOCYANATE

## TECHNICAL DATA SHEET

### APPLICATIONS

Adhesives  
Fabric coatings  
Metal coatings  
Paper coatings  
Plastic coatings  
Wood coatings

### DESCRIPTION

25-2175 is an aromatic polyisocyanate based on TDI. It is supplied at 75% solids in ethyl acetate.

25-2175 can be formulated into a two component, air dry urethane system. These systems will provide good adhesion to a variety of materials including wood, metal and plastics.

25-2175 meets FDA CFR 177.1390

### SOLUBILITY AND COMPATIBILITY

25-2175 is completely soluble in xylene, butanol, methyl ethyl ketone and butyl acetate.

25-2175 has compatibility with many hydroxyl functional polymers including polyesters, polyacrylates and polyethers.

### KEY BENEFITS

Adhesion to various substrates

### TYPICAL PROPERTIES

% Solids	74 - 76
Viscosity @ 25°C (mPa.s)	1700 - 2300
Color (Gardner)	1 maximum
% Free Monomer	0.5 maximum
% NCO	13 approximate
Equivalent Weight (Total Weight)	323 (solid resin)
Weight Per Gallon @ 25°C	9.60

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### FORMULATION

17-0801 Acrylic Polyol	100.0
25-2175	35.0
TiO <sub>2</sub>	PWC 35%
Viscosity (Ford Cup# 4)	13 sec

### DRY TIMES

Dust Free Time @ 20°C (Minutes)	Clear Varnish	30
	White Enamel	20

### FILM PROPERTIES

Forced dry at 80°C for 30 minutes. Stand for 7 days. Film thickness of 20-30  $\mu\text{m}$ .

		Clear	White Enamel
Pencil Hardness	After 1 Day	F	H
	After 2 Days	H	2H
	After 3 Days	2H	3H
Impact Strength (1 kg)		> 10 cm	> 10 cm
Bending (2mm)		OK	OK
Chemical Resistance	5% NaOH (72 Hours)	Excellent	Outstanding
	5% H <sub>2</sub> SO <sub>4</sub> (72 Hours)	Outstanding	Excellent
	Acetone (32 minutes)	Excellent	Outstanding
	Boiled Water (2 Hours)	Outstanding	Good

\* All data is based on laboratory testing and practical experience. The information is believed to be accurate, however, without obligation.