

25-2175 (AEKYUNG AK-75) AROMATIC POLYISOCYANATE

TECHNICAL DATA SHEET

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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 keytone and butyl acetate.

KEY BENEFITS

Adhesion to various substrates

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

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
TiO2	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 μm

		Clear	White Enamel
Pencil Hardness	After 1 Day	F	Н
	After 2 Days	Н	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 ₂ SO ₄ (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.

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