



A Step Ahead...

# QUAKER COLOR

DIVISION OF McADOO & ALLEN, INC.

201 S. HELLERTOWN AVENUE P.O. BOX 219  
QUAKERTOWN, PENNSYLVANIA 18951-0219  
(215) 536-3520 FAX (215) 536-6464  
www.quakercolor.com

## Technical Data Sheet

Product Code: AB-72FD

### DESCRIPTION

AB-72FD is NMP free, high performance aliphatic polyester urethane dispersion with adhesion over plastic and metal substrates. It could be used as a one component or crosslinked with isocyanate and through COOH functional groups to form high chemical and UV resistant coatings.

### APPLICATIONS

- Interior and exterior automotive plastics
- Consumer electronics such as cellular phones, computers and TV housing
- Aircraft hangars flooring
- Other applications requiring high chemical and UV resistance

### FEATURES

- Adhesion to Aluminum, CRS, Tin, PC
- Excellent chemical resistance, including hydraulic fluids
- Excellent water resistance
- Excellent hot hardness

### PROPERTIES

Appearance	Clear Liquid
Percent Solids, weight	31 +/- 2
Percent Solvent, weight	8.0
Specific Gravity, 25°C	1.04
pH, typical value	8.6
Viscosity, cPs	73

### STORAGE

Store in a cool, dry place, preferably less than 80°F, to ensure a useful shelf life of 18 months. Protect from freezing. Mix before use.



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## STARTING POINT FORMULATION

Material Component 1	Lbs.	Supplier
AB-72FD	100.00	Quaker Color
TEGO 901W	0.50	Degussa
BYK347	0.50	BYK-Chemie
TS-100	3.00	Degussa
Rheolate 300	1.00	Aqualon
OTL-Blue-50	20.00	Quaker Color
<b>Crosslinker</b>		
Rhodocoat WAT4	5%	Rhodia

## TEST RESULTS

Clear Films, no crosslinker, 7 days ambient cure

Hardness	Sward	34				Pencil	4H			
Dry Adhesion, tape	AI	5	CRS	5	B1000	5	Tin	4	PC	5
Mechanical Properties	Tensile	7455		Elongation	392	Modulus	5166			
MEK Resistance	DR to Soften	50		DR to Mar	38	DR to Remove	165			
IPA Resistance	DR to Soften	200+		DR to Mar	18	DR to Remove	Not Applicable			
Hydraulic Fluid	7 hrs spot	Skydrol, LD4		No effect	HYJET	Slight softening, recovers				



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**Pigmented Films:** 30 min at 76°C and 3 days ambient cure, 5% Isocyanate Crosslinker

DFT 1.5 mils PC Substrate	AATCC/ISO 105 Grey Scale	5 Finger Scratch test			
		2N	5N	8N	13N
Dry Cloth	5				-
Windex x 10 DR	4-5				-
Fantastic x 10 DR	4-5				-
Formula 409 x 10DR	4-5				-
Suntan @74°C x 1hr					5, pass 13N
DEET @74°C x 1hr					3-4, pass 5N

Quaker Color manufactures all its products under carefully controlled conditions to meet rigid specifications. The values given in this publication are typical values intended as guidelines for the use of the products, they are not specifications. It is the user's responsibility to thoroughly test the product in their particular application to determine its performance, efficacy and safety. Should you require the actual specifications currently enforced on specific products contact your Quaker Color representative for the appropriate information.