



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-70F

DESCRIPTION

AB-70F is high performance aliphatic polyester urethane dispersion. The unique balance between hardness and flexibility makes it suitable for applications for plastic, metal, wood and concrete coatings. It could be used as a one component or crosslinked 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
- Wood coatings
- Other applications requiring high chemical and UV resistance

FEATURES

- Excellent chemical and stain resistance
- Excellent water resistance
- Excellent hardness- flexibility balance

PROPERTIES

Appearance	Clear Liquid
Percent Solids, weight	39 +/- 2
Percent Solvent, weight	8.0
Specific Gravity, 25°C	1.04
pH, typical value	9.1
Viscosity, cPs	max 60
Freeze Thaw Stability	Passes 5 cycles

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.



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

STARTING POINT FORMULATION

Material Component 1	Lbs.	Supplier
AB-70F	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
Crosslinker		
Rhodocoat WAT4	5%	Rhodia

TEST RESULTS

Clear Films, no crosslinker, 7 days ambient cure

Hardness	Sward	20	Pencil	H		
Mechanical Properties	Tensile	5000	Elongation	750	Modulus	1000

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	5	-	-	-	-
Fantastic x 10 DR	5	-	-	-	-
Formula 409 x 10DR	5	-	-	-	-
Suntan @74°C x 1hr		8N, pass			

Weatherometer Exposure- SAE 1885 Automotive Interior Specifications

(No UV package added)

1250 KJ	$\Delta 60^\circ$ gloss ≤ 2	ΔE
AB-70F/Isocyanate	0.6	0.5

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.