



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](http://www.quakercolor.com)

## Technical Data Sheet

Product Code: AB-91F

### DESCRIPTION

AB-91F is an NMP free, high performance aliphatic polyester urethane dispersion with adhesion on metal, plastic and rubber substrates. AB-91F can be used as is or with isocyanate or carbodiimide crosslinkers. Coatings based on AB-91F will have high chemical, solvent, water and UV resistance.

### APPLICATIONS

- Interior and exterior automotive plastics
- Automotive refinish primers
- Light duty metal coatings
- Other applications requiring excellent water resistance

### FEATURES

- Adhesion to plastic, rubber and metal
- Excellent chemical
- Excellent stain resistance
- Excellent water resistance
- Stable with some anti-corrosive pigments

### PROPERTIES

Appearance	Clear Liquid
Percent Solids, weight	30 – 34
Specific Gravity, 25°C	1.03
pH, typical value	8.1-8.5
Viscosity, cPs	300 max

### 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-91F	93.00	Quaker Color
DPNB	5.00	Eastman
Tego 901W	0.30	Degussa
BYK 346	0.90	BYK
Rheolate 300	0.80	Elementis
<b>Total</b>	<b>100.00</b>	

*Cure schedule: 30min@60°C, 3 days at ambient temperature*

## CROSSLINKERS

- Water Reducible Isocyanate, 3-5% on total formula
- Carbodiimide XL-732N, 5-6% on total formula
- Epoxy-silane, 6% on total formula
- Fastest property development when X-linked with isocyanate or XL-732N

## TEST RESULTS

<b>Hardness</b>	<b>Sward</b>	12	<b>Pencil</b>	2H		
<b>Dry Adhesion, tape</b>	<b>CRS</b>	5B	<b>B1000</b>	5B	<b>PC</b>	5B
<b>Mechanical Properties</b> <i>No crosslinking</i>	<b>Tensile</b>	4500	<b>Elongation</b>	600	<b>Modulus</b>	650
<b>Crock meter- Color transfer</b>	<b>Aspect</b>	<b>AATC</b>				
<b>Dry Cloth</b>	mars	5				
<b>Windex x 10 DR</b>	mars	4-5				
<b>Fantastic x 10 DR</b>	mars	4-5				
<b>Formula 409 x 10DR</b>	mars	4-5				



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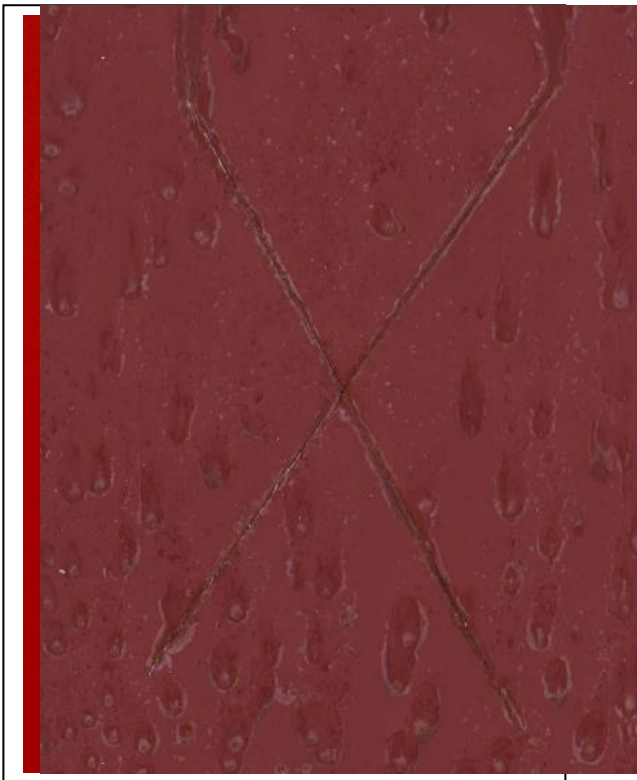
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## AUTOMOTIVE REFINISH PRIMER

Dry to sand            90 min



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.



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600 hrs Water Immersion, 1.5 mils

200 hrs Salt Spray, 1.5 mils

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