



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: ZY-154D

### DESCRIPTION

ZY-154D is a NMP free, high performance oil modified aliphatic polyester urethane dispersion for wood coatings applications. ZY-154D doesn't need any metallic drier addition.

### APPLICATIONS

- Floor coatings
- Other wood applications requiring good properties at low VOC

### FEATURES

- VOC 83 g/l
- APEO free
- Excellent stain resistance
- Excellent resistance to household cleaners
- Excellent water resistance

### PROPERTIES

<b>Appearance</b>	Light yellow	<b>Solvent, wt%</b>	3.1
<b>Non-volatile, wt%</b>	34.0±1	<b>Solvent, vol%</b>	3.7
<b>Non-volatile, vol%</b>	33.1±1	<b>Density</b>	8.3
<b>Water, wt%</b>	62.9±1	<b>pH</b>	7.5-8.5
<b>Water, vol%</b>	62.7±1	<b>Viscosity, cPs</b>	50- 150

### 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
ZY-154D	100.00	Quaker Color
Foamstar A10	0.50	Cognis
Byk 347	1.00	Byk
Aerosil TS100	0.50	Degussa

## TEST RESULTS

<b>Stability</b>	30 days at 50°C, 14 days at 60°C
<b>Dry Time</b>	53 min
<b>Hardness Development</b>	
<b>Overnight dry</b>	Pencil- H, Sward- 24
<b>7 days dry</b>	Pencil- H, Sward- 24
<b>Mar Resistance, 26N</b>	No effect
<b>Taber Abrasion, mg loss CS-10 wheels, 1000 cycles</b>	50
<b>Water Resistance, 16 hrs</b>	No effect
<b>Olive oil, 16 hrs</b>	No effect
<b>Grape juice, 1 hr</b>	No effect
<b>Vinegar, 1 hr</b>	No effect
<b>50% Ethanol</b>	No effect
<b>70% IPA</b>	Softening
<b>Household Cleaners, 1 hr. covered spot, unsealed wood</b>	
<b>Formula 409</b>	No effect
<b>Windex</b>	Slight discoloration
<b>Fantastic</b>	No effect
<b>50% Clorox</b>	Slight discoloration

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.