



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-154

Experimental

DESCRIPTION

ZY-154 is NMP free, high performance oil modified aliphatic polyester urethane dispersion for wood coatings applications.

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

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

STORAGE

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

RECOMMENDED DRYER PACKAGE

Manganese Hydro-Cure III

0.025% metal/binder



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STARTING POINT FORMULATION

Material	Lbs.	Supplier
Component 1		
ZY-154	100.00	Quaker Color
Tego 901W	0.50	Degussa
Byk 347	0.90	Byk
Aerosil TS100	0.50	Degussa
<i>Premix and Add Slowly</i>		
Water	5.00	
Byk 347	0.10	Byk
Mn Hydro- Cure III	0.11	OMG

TEST RESULTS

Stability	30 days at 50°C, 14 days at 60°C
Dry Time	53 min
Hardness Development	
Overnight dry	Pencil- H, Sward- 24
7 days dry	Pencil- H, Sward- 24
Mar Resistance, 26N	No effect
Taber Abrasion, mg loss	50
CS-10 wheels, 1000 cycles	
Water Resistance, 16 hrs	No effect
Olive oil, 16 hrs	No effect
Grape juice, 1 hr	No effect
Vinegar, 1 hr	No effect
50% Ethanol	No effect
70% IPA	Softening
Household Cleaners, 1 hr covered spot, unsealed wood	
Formula 409	No effect
Windex	Slight discoloration
Fantastic	No effect
50% Clorox	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. Should you require the actual specifications currently enforced on specific products contact your Quaker Color representative for the appropriate information.