



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-133

DESCRIPTION

ZY-133 is a NMP free, high performance oil modified aliphatic polyester urethane dispersion for floor coatings. For enhanced properties on concrete flooring, a second crosslinker like aziridine is recommended.

APPLICATIONS

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

FEATURES

- VOC 93 g/l
- APE free
- Adhesion to aged epoxy and urethane coatings
- Early return to service, very fast drying
- Excellent dirt pick-up resistance
- Excellent water resistance

PROPERTIES

Appearance	Light yellow	Solvent, wt%	3.6
Non-volatile, wt%	33.0-35.0	Solvent, vol%	4.4
Non-volatile, vol%	32.0-34.0	Density	8.3
Water, wt%	61.4-63.4	pH	7.5-8.5
Water, vol%	61.5-63.5	Viscosity, cPs	25-100

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.

RECOMMENDED DRYER PACKAGE

Manganese Hydro-Cure III 0.05% metal/binder



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STARTING POINT FORMULATION

Material Component 1	Lbs.	Supplier
ZY-133	100.00	Quaker Color
BYK 024	0.40	BYK
Surydol 104BC	1.00	BYK
Aerosil TS100	0.50	Degussa
Acrysol 12W	.25	Rohm & Haas
Water	.25	
<i>Premix and add slowly</i>		
Water	5.00	
BYK 348	0.10	BYK
Mn Hydro-Cure III	0.19	OMG

TEST RESULTS

Stability	30 days at 50°C, 14 days at 60°C
Dry Time	40 min
Dirt pick up	Minimal with overnight cure
Hardness Development	
Overnight dry	Pencil- H, Sward- 32
7 days dry	Pencil- H, Sward- 38
Mar Resistance, 26N	No effect
Taber Abrasion, mg loss CS-10 wheels, 1000 cycles	40
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	Minimal softening



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TEST RESULTS (CONTINUED)

70% IPA	No Effect
Household Cleaners, 1 hr. covered spot, unsealed wood	
Formula 409	Slight Discoloration
Windex	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. 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.