



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

| | | | |
|---------------------------|--------------|-----------------------|---------|
| 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 eighteen months. Protect from freezing. Mix before use.



A Step Ahead...

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STARTING POINT FORMULATION

| Material Component 1 | Lbs. | Supplier |
|----------------------|--------|--------------|
| ZY-154D | 100.00 | Quaker Color |
| Foamstar ST2410 | 0.50 | BASF |
| Byk 347 | 1.00 | Byk |
| Aerosil TS100 | 0.50 | Degussa |

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 day dry | Pencil- H, Sward- 24 |
| Mar Resistance, 26N | No effect |
| Taber Abrasion, mg loss CS-17 wheels, 1000 cycles | 50 |
| 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. 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.