

Synthetic Perspiration:

Urea	0.172 g
Lactic Acid	0.250 g
Potassium Chloride	0.022 g
Water	99.358 g
Glycine	0.020 g
Sodium Chloride	0.175 g
Glucose	0.003 g

4.14 Coefficient of Friction

Groups 2 through 6 must achieve a coefficient of friction reading between 0.5 and 0.7.

Test Procedure

Method: ASTM D 2047

Prepare three 9 x 9 inch maple panels according to 3.2. Using the James Machine, run 4 cycles on each panel, turning the panel 90° after each cycle. The coefficient of friction value is determined by averaging the values of all 12 cycles. Oil-based products should be allowed to dry/cure for 14 days before the test is conducted.

4.15 Freeze-Thaw Resistance

Group 1 (Water-based) and Groups 4 and 5 shall not exhibit any separation, stratification or coagulation when exposed to freezing temperatures and then permitted to thaw. Viscosity is to be measured before and after exposure. Group 1 (NFT), Group 4 (NFT), Group 5 (NFT), and Group 6 (NFT) are not tested for freeze-thaw resistance.

Test Procedure

Method: ASTM D 2243

Pint containers of the coating will be subjected to three freeze/thaw cycles in accordance with ASTM D 2243. The coating will be evaluated by Stormer or Brookfield viscosity and visual inspection. After each freeze cycle, once the product has reached room temperature, agitate per manufacturers' instructions to promote a homogeneous fluid. Measure the gloss in accordance with 4.3. Gloss should be measured at 60° (Matte: 85°, Gloss meter). A greater than 3% change in gloss or a greater than 20% change in viscosity will indicate failure.

Approved Testing Facilities:

**XYZ Laboratories Inc.
123 Route Ten
Newark, NJ 07981**

**ABC Coatings Inc.
10545 Hwy C
St. Louis, MO 65401**

Authorization for Laboratory Examination

Selected Lab information would be listed here

Date:

We hereby authorize your laboratory to examine the following product for compliance with the applicable specifications for its product type. We hereby furnish all the information required.

1. Product Type (select one):

Urethane Oil Sealer

Oleoresinous Oil Sealer

Water-based Sealer

Urethane Oil Surface Finish

Epoxy Ester Surface Finish

Moisture Cured Urethane Finish

Water-based Finish

2. Composition Category (Please provide data denoted with ① or ②)

Oleoresinous Moisture Cured Urethane ① % NCO _____

Epoxy Ester Two Package Urethane ① % NCO _____

Urethane Oil ② % N _____

Other (Identify) _____

① % NCO: Percent isocyanate of non-volatiles

② % N: Percent nitrogen of non-volatiles

3. If product is Urethane-based, _____ % of free diisocyanate of non-volatiles (must be < 1%)

4. **Experimental Name:** _____

5. **Recommended Purpose:** _____