

Finish Technology Tests *(Test is conducted as a battery and includes AR1 and CR2)*

- **CR1 - Chemical Resistance**

- What's Included

- Specimen

- (1) ¾" T x 5" W x 16" L
- The test specimen shall be solid sugar maple (*Acer saccharum*) with a single finishing technology applied in accordance with the manufacturer/supplier's documented instructions and protected from light.
- Any additives (e.g. primers or bonding agents) applied to the test specimen in addition to the individual finishing technology being tested shall be disclosed prior to testing.

- Check In

- Specimen is unloaded from delivery truck, unpacked, and reviewed for damage
- Specimen is labeled with identification label for test process
- Specimen is photographed for record
- Specimen is placed in Acclimation Room for 72 hours

- Test

- Specimen humidity requirements shall be in accordance with ASTM D1308.
- Test shall be conducted in accordance with ASTM D1308.
- Two tests shall be conducted on each test specimen.
- Tests shall be conducted on each finishing system with each of the following reagents:
- Test Method A:
 - Mustard, Yellow
 - Vinegar, White Distilled
 - Lemon Juice
 - Orange Juice
 - Ketchup
 - Coffee
 - Olive Oil
 - Red Wine
 - 1% Dishwashing Detergent Solution
- Test Method B:
 - Distilled Water
 - Acetone
 - Household Ammonia
 - Naphtha
 - Isopropyl Alcohol
 - Glass Cleaner (Butyl Cellosolve-Based)
 - 33% Sulfuric Acid
 - 77% Sulfuric Acid

- Vodka (80 Proof)
 - 10% TSP (Diluted in Distilled Water)
- Testing for all reagents shall include two spots of reagent, each measuring .2 milliliters (10 drops) in volume. After remaining in contact with the specimen for the specified duration of the test, each reagent shall be wiped away with a soft, non-abrasive, dye-free wiper (e.g. ULINE S-21157 12x13" white industrial wipers or an equivalent product).
- Test Steps and Test Process (Test Method B) Step 1
 - For all reagents specified as Test Method B, one spot of reagent shall be left uncovered on the surface of the test specimen. This spot shall be wiped away after two minutes of contact with the test specimen. The second spot of reagent shall be covered with a watch glass and be left on the surface of the test specimen for a period of 24 hours. After a period of 24 hours, the second spot shall be wiped away.
- Test Steps and Test Process (Test Methods A and B) Step 2
 - After reagents are wiped away from the test specimen surface, specimen shall be left to rest for a period of 24 hours. After the 24-hour resting period has concluded, effects of reagents shall be observed.
- Evaluation
 - Test results shall be determined according to the following chart:

Score of 1	Score of 2	Score of 3	Score of 4	Score of 5
Poor performance; film failure is imminent and repairs difficult	Moder effect; performance adversely affected and repairs required	Some effect; noticeable change, and the coating will recover with minimal repairs	Minimal effect or slight change; little repair required	No effect from the test

- Test Report
 - Test documentation including company information, photos, and technical information compiled into a printed report document.