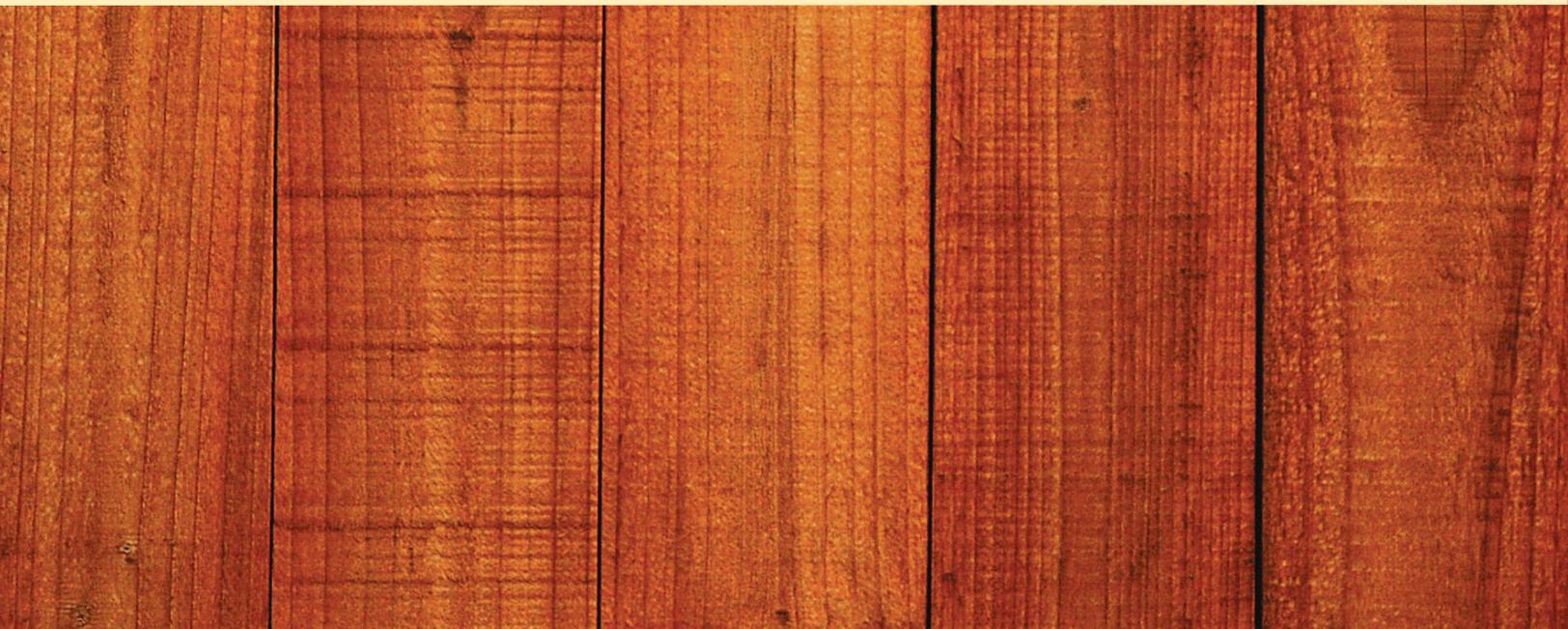




**Sutherland Welles Ltd.®**

*Sustainable, natural & earth-friendly Polymerized Tung Oil wood finishes.*

FLOOR INSTRUCTIONS  
**MILLIE'S ALL-PURPOSE  
PENETRATING TUNG OIL**



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## Millie's All-Purpose Penetrating Polymerized Tung Oil

### Sanding Process

#### step 1: First Sanding

The initial cut either removes finish from an existing floor or on a new floor removes the chatter lines left from the planner that surfaced the board and any variation in height from board to board known as "over-wood". The grit to be used depends on new or old, usually **50-60 grit**.

#### step 2: Sanding sequence

After the initial sanding, ideally there are three more sandings; **80,100 and 120 grit sandpaper**. The third surface sanding using the 120 grit should be done lightly. For an oil finish, you need a finish surface that is furniture grade. Modern milling practices create boards that are almost finish ready with minimal sanding required to eliminate chatter marks, etc. Always start with as high a grit as possible to minimize scarring the wood. This is very important with soft woods such as Eastern White Pine and Spruce.

#### step 3: Edging

Begin edging with a grit above the previous directional sanding, i.e. directional sanding at **80 grit** – edge out at **100grit**.

#### step 3: Screening

Flooring contractors will blend the drum sander line and edger line by screening the floor to marry the center with the perimeter. This should be done thoroughly and carefully to minimize swirls in the wood. Any circular sanding should always be followed with directional sanding. Poor edging will create a halo effect around the perimeter of the room which will become evident once the stain cures and settles into all the swirl lines left by the edger or the screening process. To verify all swirl lines are removed, put a drop light on the perimeter and look towards the light- it will highlight any lingering sanding blemishes.

## Floor Sanding Prep

### Helpful Hint!

- All sanding is directional with the grain.
- Edging or screening should always be followed with directional sanding.
- Avoid using hand held orbital sanders because they create swirls that show up after they are stained.
- **Special Surfaces:** If the flooring is a reclaimed timber or new wood with special surface treatment such as hand-planning, you will need to prep the wood with hand sanding only. Hand sanding will smooth the surface without changing the special character marks.

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## Millie's All-Purpose Penetrating Tung Oil

Millie's is unique in concept. The goal is to completely saturate the wood. For most wood species, it will require three applications to achieve total saturation. The absorption of the wood takes longer with each coat. There is no drying between coats. With each coat, more and more of the wood will look and feel saturated as evidenced by the surface feeling gooey and sticky. This is the beeswax plating the oil and putting a wax film over the surface so the oil can't cure and can be buffed off.

### Millie's Floor Instructions

#### step 1:

- Apply Millie's
- Do not wipe
- Wait 6-8 hours let fully saturate

#### step 2:

- Apply Millie's
- Do not wipe
- Wait 10-18 hours let fully saturate

#### step 3:

- Apply Millie's
- Do not wipe
- Wait 24 hours let fully saturate

**\*Surface should be really sticky.\***

#### step 4:

- Apply Millie's in 3 ft wide section. Length of board
- Wait 5 min. until liquified
- Buffing #1: w/steel wool  
(To avoid splashing buff toward the wall)
- Buffing #2: Change to dry steel wool pad. Re-buff section
- Repeat for entire floor

#### step 5:

- Polish surface w/ clean & dry terry cloth

### Cure Time

Allow 72 hours to fully cure

## Millie's Floor Instructions

### Applicator Options

**Rag:** Scott® blue paper shop towels

**Lambs Wool applicator**

**Terry Cloth Towels:** Bar size **Polishing**

**Pads:** 3M® White polishing pad **Brush:**  
Any brush

### Cure Time

Allow 72 hours to fully cure

## Helpful Hint!

### Tips During Finishing

- You can use the same steel wool pad until it's obvious that it no longer is picking up the oil. It should be effective for about 250sqft. You will repeat this process until you have buffed the entire room. As you proceed from one section to the next, you will spray some back into a previously buffed area, (this is normal) move the buffer into the previous area to pick up that fresh oil. You will need to hold the cord to the buffing machine over your shoulder so it's not dragging in the oil.

### Tips Post Finishing

- Allow the floor to remain unused for 72 hours for the surface to become harder and more resistant to damage.
- If this isn't practical covering the floor with contractors paper is the next best option if other trades people need to access the area.
- Allow at least 48 hours after last application prior to covering.
- Do not tape any covering directly to the finish.
- No rugs should be laid for 2 weeks to allow thorough curing of the finish.

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## Steel Wool Pad Instructions

### Why # 1 steel wool?

You need a coarse steel wool to cut through the oil and polish the wood. Additionally, the coarseness creates air spaces that collect the oil that isn't burnished into the wood.

### How to create a steel wool pad from a roll?

- **Caution:** Make your pads outside, away from your finishing area, as separating the roll will cause loose steel wool fibers to fall in your work area.
- **Buffing machine:** Will determine the size of the pad you make.
- **3M™ white synthetic polishing pad:** The pad acts like "Velcro" to hold the steel wool in place.
- **Folding Steel Wool:** Fold strips of steel wool in a zig-zag patten from one side of the pad to the opposite side until you have reached the desired size. Cut or pull the steel wool fibers apart to end the pad. Tuck in the ends of the steel wool so it won't unravel. To speed the process along make multiple pads at one time.
- **Buffer stability:** The steel wool pad is secured in position under the drive pad by the weight of the buffing machine. The evenness of the steel wool weave will ensure the buffer is stable.

### How much steel wool do I need?

- Average yield per 5lb roll = 2000sq.ft.
- 8-10 16inch pads per roll
- You will need a fresh pad for every 250 sq. ft of flooring.
- You can flip the pad and use the other side for another 250 sq.ft.



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## Millie's Maintenance

### Weekly Floor Care

- **Vacuum:** To minimize scratching vacuum regularly to keep the floor grit free.
- **Dust Mop:** Use an oil-prepped all cotton (not synthetic) dust mop. To prep a new mop, use Sutherland Welles Ltd.® Dust and Tacking Oil according to the directions on the label. The new "Swiffer" type of wood floor dusters are fine but avoid using the "wet" version as they will dull the finish.

### Floor Care

- **Do:** Wash the floor using a cup of white vinegar to a gallon of warm water. Use a sponge that has been moistened in the vinegar water. Buff the floor dry with a clean soft cloth.
- **Do:** Replace the vinegar with ammonia for stubborn dirt.
- **Do:** Spray WD-40® on a soft, dry cloth to rub off black shoe marks.
- **DON'T:** Under NO circumstances should any cleaner with a soap base (such as Murphy's Oil Soap) be used. These cleaners leave a film that will gum the surface of the oil.
- **DON'T:** Flood the floor with water when washing.
- **DON'T:** Use steam cleaners.

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### Re-Oiling the Floor

- **When to re-oil:** An oiled floor needs to be re-oiled every 2-3 years depending on traffic patterns and use.
- **Prep:** Wash the floor with TSP (Trisodium Phosphate) available in hardware stores. Follow directions on package.
- **Sand:** Lightly sand with **400-600 grit** sandpaper if there are scratches you want to minimize or eliminate.

### Re-Oiling Millie's Instructions

#### step 1:

- Apply Millie's in 3 ft wide section. Length or board
- Buffing #1: w/steel wool (To avoid splashing buff toward the wall)
- Buffing #2: Change to dry steel wool pad. Re-buff section
- Repeat for entire floor

#### step 2:

- Polish surface w/ clean & dry terry cloth

**Repeat steps if needed.**

#### Cure Time

Allow 72 hours to fully cure