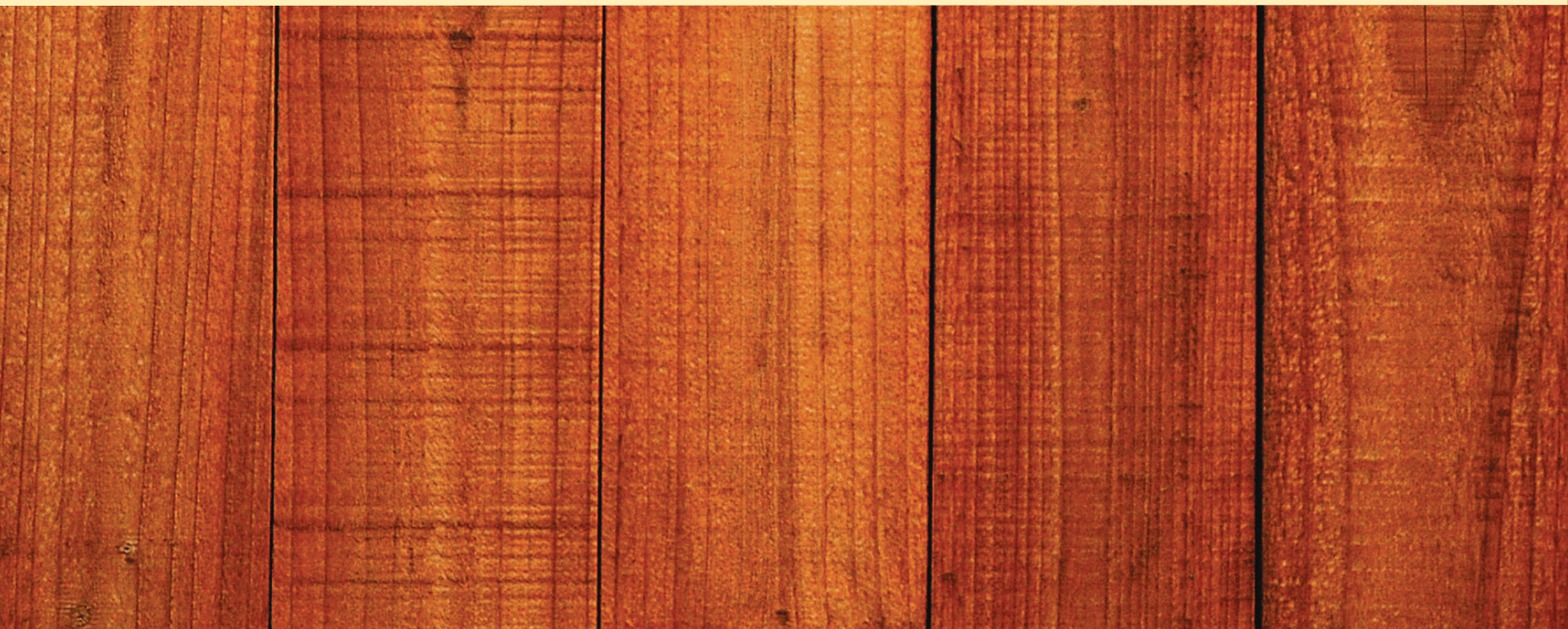




Sutherland Welles Ltd.[®]

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

FLOOR INSTRUCTIONS
MURDOCH'S SYSTEM



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Floor Sanding Prep



Murdoch's Hard Sealer & Uralkyd 500 Floor Finish

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. Sutherland Welles Sealers and Stains are formulated to penetrate deep into the wood. Any sanding flaw not properly addressed in the wood preparation step will appear once the sealer and/or stain is applied. Not pretty! 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.

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-planing, 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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Murdoch's Floor Instructions

Murdoch's Uralkyd 500 Floor Finish

Murdoch's Hard Sealer applied as the initial coats enhance the grain definition that is often characteristic of the wood species chosen for drums. The final appearance is produced by the choice of topcoat. Murdoch's Uralkyd 500 Matte, Satin or Gloss or Satin provide maximum protection. We recommend this for high moisture areas such as kitchens and bathrooms.

Uralkyd 500 Floor Instructions (ALL FINISHES)

step 1:

- Apply Murdoch's *Hard Sealer*
- Don't wipe
- Let cure 24 hours

step 2:

- Sand 400 grit or new screen 120/150 grit or new synthetic 3M™ maroon BCP (Between Coat Pad)
- Vacuum & tack surface

(use Mineral Sprits on a rag to clean surface)

step 3:

- Apply Murdoch's *Hard Sealer*
- Don't wipe
- Let cure 24 hours

step 4:

- Sand 400 grit or used screen 120/150 grit or used synthetic 3M™ maroon BCP (Between Coat Pad)
- Vacuum & tack surface

step 5:

- Apply Murdoch's *Uralkyd 500 Floor Finish*
- Let cure 24 hours

step 6:

- Sand 600 grit or used screen 120/150 grit or used synthetic 3M™ maroon BCP (Between Coat Pad)
- Vacuum & tack surface

step 7:

- Apply Murdoch's *Uralkyd 500 Floor Finish*
- Let cure 24 hours

Applicator Options

Rag: Scott® blue paper shop towels

Brush: Natural white china bristle brush (thin coats only)

3M™ Synthetic Maroon BCP

Short Napped Synthetic Applicator

Cure Test

Lightly sand several inconspicuous areas. A fine, white powder indicates that you can safely apply another coat.

Helpful Hint!

Tips During Finishing

- Do not roll the topcoat.
- Minimize loading the brush/applicator. You want to flow on a thin even coat.
- Avoid rigorous brushing. The finish will level on its own.
- If you have bubbles in coat work them to other areas as they won't go away. They will burst and create marks in the cured surface.
- If using Satin or Matte, make sure to stir the product periodically while coating to distribute the flattening agent evenly.

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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We always recommend brushing out the stain as you have better contact with the wood. If you want to speed the process along, apply the stain with a lamb's wool applicator – thinly and then back brush it in. Brushing gives you an even, uniform layer. If you get too much on and you have bubbles and brush strokes, brush excess onto next section of boards.

Penetrating Stain Instructions

step 1:

- Apply *Murdoch's Hard Sealer ONLY*
- Do not wipe.
- Let cure 24 hours

step 2:

- Sand (400 grit)
- Vacuum & tack surface
(use Mineral Spirits on a rag to clean surface)

step 3:

- Mix *Hard Sealer & Stain* using determined ratio of Sealer:Stain

step 4:

- Apply *Hard Sealer & Stain* mixture.
- Do not wipe.
- Let cure 24 hours.

step 5:

- Sand lightly with 600 grit or #0000 steel wool
- Vacuum & tack surface

step 6:

- Apply Sealer and Stain mixture. Adjusting stain ratio if needed.
- Do not wipe.
- Let cure 24 hours.

step 7:

- Sand lightly with 600 grit or #0000 steel wool
- Vacuum & tack surface

Glazing Stain Instructions

step 1:

- Apply Murdoch's *Hard Sealer ONLY*.
- Do not wipe.
- Let cure 24 hours

step 2:

- Sand 400 grit
- Vacuum & tack surface
(use Mineral Spirits on a rag to clean surface)

step 3:

- Mix *Hard Sealer & Stain* using determined ratio of Sealer:Stain

step 4:

- Apply *Hard Sealer & Stain* mixture.
- Do Not Wipe.
- Let cure 24 hours.

step 5:

- Sand lightly with 600 grit or #0000 steel wool
- Vacuum & tack surface

step 6:

- Apply *Hard Sealer & Stain* mixture. Adjusting stain ratio if needed.
- Do Not Wipe.
- Let cure 24 hours.

step 7:

- Sand lightly with 600 grit or #0000 steel wool
- Vacuum & tack surface

Staining Your Floor

Applicator Options

Brush: Natural white china bristle brush (thin coats only)

Lambs Wool applicator

Rag: Scott® blue paper shop towels

Cure Test

Push finger tips against the grain of the wood. If they glide easily over the surface, you are ready to apply your next coat.

Rustic Stain Instructions

step 1:

- Apply Murdoch's *Hard Sealer ONLY*
- Do not wipe.
- Let cure 24 hours

step 2:

- Sand (400 grit)
- Vacuum & tack surface
(use Mineral Spirits on a rag to clean surface)

step 3:

- Mix *Hard Sealer & Stain* using determined ratio of Sealer:Stain

step 4:

- Apply *Hard Sealer and Stain* mixture.
- Wipe to desired color depth.
- Let cure 24 hours.

step 5:

- Sand lightly with 600 grit or #0000 steel wool
- Vacuum & tack surface

step 6:

- Apply *Hard Sealer & Stain* mixture. Adjusting stain ratio if needed.
- Wipe to the desired color depth.
- Let cure 24 hours.

step 7:

- Sand lightly with 600 grit or #0000 steel wool
- Vacuum & tack surface

Top Coat Instructions Uralkyd 500: Matte, Satin or Gloss

step 8

- Apply Murdoch's *Uralkyd 500 Floor Finish*
- Let cure 24 hours

step 9

- Sand 600 grit or **used** screen 120/150 grit or **used** synthetic 3M™ maroon BCP
- Vacuum & tack surface

step 10

- Apply Murdoch's *Uralkyd 500 Floor Finish*
- Let cure 24 hours

Dilution Schedule for Stain

Tint	8 parts Sealer : 1 part Stain
Light	6 parts Sealer : 1 part Stain
Medium	4 parts Sealer : 1 part Stain
Dark	2 parts Sealer : 1 part Stain

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Murdoch'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.
- **DON'T:** Wax a Murdoch's floor. Waxing interferes with adhesion of maintenance coats and can be slippery.

Re-Surfacing the Floor

- **When to re-surface:** A Murdoch's floor needs to be re-surfaced every 5-8 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-Surfacing Murdoch's Instructions

step 1:

- Apply Murdoch's Uralkyd Matte, Satin or Gloss
- Let cure 24 hours