

Sourcing wood for turning

Well seasoned wood is expensive

Lots of timber available locally Friends/neighbours Tree surgeons It is often freely given- I have not bought any recently, but often give back a turned object

And it is nice to use local timber 'Made in Marple from local trees' How do you go about preparing it? What trees are best to use?



From Marple Mem Jan 2023



Preparing new/wet wood

- Freshly felled timber contains a lot of moisture.
- Most homes are much drier than a freshly felled log
- · As the timber dries out it shrinks
- Obviously the outside of the wood dries first This creates stresses that lead to splits and cracks in the wood.



Even if you buy seasoned wood



Part of my wood pile

Preparing new/wet wood

- Seasoning refers to the drying out process.
- The wood still retains some moisture and if moved to a drier environment will shrink leading to further distortion splits and cracks
- If you season a whole log then some splitting/cracking is almost guaranteed.
- The amount varies with the type of wood and size of timber. Big logs-more splits and cracks Later on we will talk about funky wood. Wood that has becomes soft in places due to rot.

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Preparing new/wet wood To reduce the likelihood of splitting etc 1. Remove heart wood ¹ I like to have bowls that incorporate the heart wood.

- Seal the ends with wax, or paint, to slow the rate of drying at the ends
 Still splits, usually have to throw away ender Still splits, usually have to throw awared
 Takes ages
 Takes ages alot of storage space
 Still danger of movement when finished item is moved to drier location, i.e. shed/cellar to living room

 - - 1. https://voutu.be/a4Vm



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Preparing new/wet wood

- · Problems with splitting vary with different types of timber and the log size
- Problem timbers include, cherry, holly, lilac, apple
 Less of a problem oak, ash, yew.
- With problem woods it is best to assume you are going to have to re-finish (re-fill splits) after the piece has been in its final resting place for a month or two.
- Often suggested that you rough turn first then leave a few months in a room with similar humidity to the final resting place before finishing.
 My favourite
- If you have a big log with a few splits you might be able to avoid them in your final piece



Holly branch. Only hope is 1 splits part of the design. Donated by Bob Evans





Microwave

- To rapidly dry wood before turning you can place it in the microwave.
- Only good for small items (size that can fit in microwave)
- Dries wood more evenly The microwaves excite water molecules in wood which creates heat.
- I use it occasionally to finish off drying



Holly branch. Only hope the splits part of the de

Don't give up

- Lilac vase- 3 attempts
- First attempt cracked so badly I put it in the log burner bin (for daughter)
- Second attempt showed some splitting
 Splits filled with superglue and brass powder



2rd attempt

litting aroun ood. Filled w

See video <u>https://youtu.be/1wOIEe-H5Bs</u> I suspect the cherry vase in this video will split further when it dries out

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- Excellent quick reliable method
 - Rough turn

 - Remove saw dust-if you are proposing to use filler other than sawdust
 - Sanding seal around split- to stop staining of adjacent wood

 - Dribble on thin super glue
 May need to repeat until flush or slightly protruding
 Sand smooth and finish.



Another example, cherry wood



Large cherry fruit bowl-required second fill and re-finish after a few months

Larger splits, small cracks and voids

It shrinks a bit. Over fill first fill or use 2nd fill if want flush finish

seal.

Easy to use

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Other fillers Sawdust is often used as a filler for superglue Often darkens with the glue and can be patchy unless you carefully select fine sawdust - I keep tubs of different coloured sawdust on the shelf Coffee grounds Definitely darker. Need a fine grind. Other powders/pigments





Oak vessel including heart wood



Brass powder

Best to accept that splits will remain visible and go for a contrasting colour

 Black superglue Not much success with this

Resin use in woodturning

- Many U-tube videos on the use of resin
- Most involve casting bits of wood in a chamber that is then filled with resin and put in vacuum chamber to remove bubbles
- · Requires a lot of high tech equipment





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Example: Badly cracked piece of Ash with nice infarcts. ated by Bob Evans

Rough turned to a bowl Left thick as danger of breaking



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Filling cracks with resin

- Why use resin?
- Excellent finish
 Can get high polish
- Get excellent penetration, soaks into wood much better than other solutions e.g. super glue and epoxy
 Lots of colouring options







 I currently us GlassCast, 2 part mix No problem with bubbles

Case example (continued Tape over cracks on the outside to stop resin seeping through when poured on the inside. Figue position is a container so that any seepage is contained: twill find the smallest gap! Bowli spositioned within container so that resin will fill one of the cracks. Left overnight. Repositioned and second pouring to fill another crack. Repeated until all cracks filled: 4 pours for this example (4 days). Remove tape and finish bowl on the lathe.

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Fill with resin and re

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Bigger cracks and bigger voids

- Another example using resin
 Split right through blank (apple I think)
- Taped both sides
 Filled from top with blue resin



Bigger cracks and bigger voids

- Another example (continued) After resin had dried I remounted and drilled/hollowed
 Heat of drilling caused a crack to appear
 Taped and filled with epoxy



Cracks and large splits • Final vase Nice bit of woodworm





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One last example of using resin to fill cracks

- Ooops
 Most of the resin found a hole
 and seeped into outer container
- Next day more extreme measures More tape
 More tape
 Silicon sealer over tape edges and the bowls bottom where most seepage occurred, due to tape not fitting well on complex curves.

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One last example of using resin to fill cracks

- No/little seepage
 Removed cup, tape and silicon sealer
- You can see some seepage radiating from the splits





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Milliput for cracks and large splits

- Putty type filler
 Push into cracks groves etc
 Let it dry
 Turn and polish
 Does not adhere as well as epoxy or resin
- If left for long in packet it gets hard and difficult to use. It can be softened in microwave. Just few seconds



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Milliput used to form rim and in groves around segmented section. Tenon helps to secure it in place



Pewter !!

 In this example the pewter was poured into a groove the sides of which were then turned off Alternate method is to cast in scrap wood and then glue to bowl - easier

I have only used it to put a rim on bowls

Could be used to fill voids
 Difficult to think of a method to seal around area of fill



Harden the Punky wood You can try soak the wood with sanding sealer and repeat final cut/sanding I have not found this very helpful ood hardener. For this project I used s Wood Hardener, which I found to sorbed into the punky area. ep adding coats until surface is saturated e to dry Sharpen chisel again and undertake final cut/sand

The punky wood was hardened with Rustins wood hardener Final bowl that had an area of punky wood





Local ash tree with a section of soft cream punky wood

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 I hope you will look at those punky, split and cracked pieces of wood in your workshop with new enthusiasm and that you find plenty of wood locally to hone your turning skills Re





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