

# Bright Copper Mirror Instructions

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Bright Copper mirrors are pink - exactly the color of highly polished copper metal. Our Mirroring Kits include 1" samples of Bright Copper applied to flat and textured glass.

The process of mirroring is the same for all metals. These instructions assume that you know how to make a silver mirror. The checklist below outlines the steps for creating a copper mirror.

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## Copper mirrors differ from silver mirrors in 2 ways:

- 1) Use Tin for Gold instead of Tin for Silver to sensitize the glass.
- 2) Use Palladium Sensitizer on top of the Tin for Gold to super-sensitize it.

## Mix Tin for Gold

- 1) Use the 10 ml cylinder to measure out **3 ml** of concentrated Tin for Gold. Pour it into the 16 oz measuring cup and add **16 fluid ounces** of steam distilled water. You may have more diluted Tin for Gold than you need, but you will have the right ratio of Tin to water.
- 2) Diluted Tin for Gold has a shelf life of 6 to 8 hours. Mix fresh daily.

## Mix Palladium Sensitizer

- 1) Use the 10 ml cylinder to measure out **2 ml** of concentrated Palladium Sensitizer per square foot. Pour it into a measuring cup and add **2 fluid ounces** of steam distilled water per square foot. This is the same mixing ratio as Tin for Silver
- 2) Diluted Palladium Sensitizer has a shelf life of 6 to 8 hours. Mix fresh daily.

## Notes:

- Use **10 ml** each of the 4 copper chemicals per square foot of glass (40 ml total).
- Mix the chemicals in clean **glass** containers. Do not use paper or plastic cups.

## Copper Mirror Checklist

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1. Set out the chemicals, tub, rack, cleaning mat and glass.
2. Mix up the Tin for Gold as directed.
3. In a separate cup, mix up the Palladium Sensitizer as directed.
4. Clean the glass with glass cleaner and hot tap water. .
5. For flat or 3-D glass, polish with hot, wet cerium oxide and glass cleaner.
6. Remove the cerium oxide with a sponge, brush or paper towel.
7. Rinse it thoroughly with distilled water and tip all the water off.
8. Pour on at least **2 fluid ounces** of diluted Tin for Gold per square foot.
9. Let the Tin sit on the glass for about 30 seconds and rinse it off.
10. Pour on at least **2 fluid ounces** of diluted Palladium Sensitizer per square foot.
11. Let the Palladium Sensitizer sit for about 30 seconds and rinse it off.
12. Measure out **10 ml** of each Copper chemical per square foot of glass.
13. Tip all the rinse water off the glass.
14. Pour the Bright Copper Solution, Bright Copper Complexer and Bright Copper Activator into one glass container.
15. Pour the chemicals back and forth into another container 2 or 3 times to mix them.
16. Add Bright Copper Reducer and pour back and forth again.
17. Pour the mixed chemicals on the glass.
18. Rock the glass gently to get an even distribution.
19. Let the copper sit while it deposits on the glass – no longer than 15 minutes.
20. Rock the glass gently to move the chemicals around every few minutes.
21. Pour the chemicals off the glass into your tray or waste treatment bucket.
22. Rinse the mirror thoroughly with distilled water.
23. Stand the mirror on edge to dry.
24. When it is dry, back it with backing paint. Let the paint dry completely.
25. Use Copper Remover and pumice to clean the face of the mirror.
26. Stand back and admire your handiwork - a “peach” mirror is a rare thing.

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