

# Stuck on You, The World of Glue

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Repair Café TV • Repair Café North Carolina

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## Safety First

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- Read and Follow Manufacturer's Instructions
- Adequate Fresh Air
- Cloth masks do not block solvent vapor

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## Clamps

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- Bar clamps
- Painter's Tape (esp. easy release or safe release)
- Chip Clips
- Telephone Books 🤔



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## Set time vs. Cure time

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- Set time
  - The glue begins to solidify and has some grab on the workpiece.
- Cure time
  - The glue has fully dried and has maximum hold.

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Paper and Wood  
Elmer and Friends

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Elmer and Friends

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## Elmer's Glue vs. Aleene's Tacky Glue

- Water-based, Polyvinyl Acetate PVA
- “White Glue”
- Performs Best with Porous Material
- Neutral impact on pH
- Preferred for Paper and Book repair
- Interior Only



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## Carpenters Glue Elmer's and Titebond

- White Glue with Additives
- Yellow in color
- Sandable and Paintable
- Interior vs Interior/Exterior
- Use with Dry wood



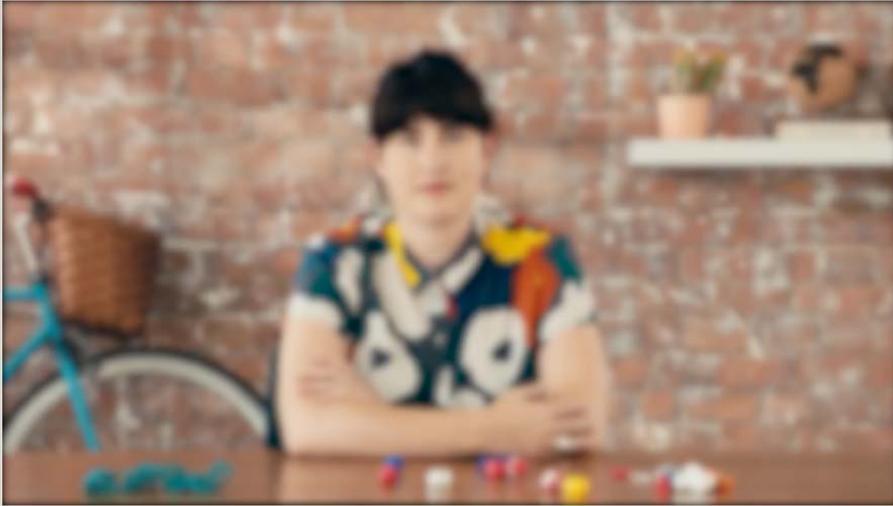
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## SUGRU

- “The World’s First Moldable Glue”



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[Play Video on YouTube: https://youtu.be/601UiVKyYLw](https://youtu.be/601UiVKyYLw)

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## Shoes

- Sticks to common materials
- Remains Flexible
- Dries Clear
- Clean off excess immediately with a solvent.



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## Almost Everything E6000

- Avoid Immitators (B6000?)
- Replaces hot glue sticks
- Remains flexible and resists peeling



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## Regluing a Cabochon

- ▶ Stone, glass, plastic, shell
- ▶ Flat back



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## Cyanoacrylate = Super Glue Krazy Glue, Dollar Store Glue, DAP Rapidfuse

- Short Shelf Life
- Brittle
- Short Working time
- Good for hard plastics



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[Play Video on YouTube: https://youtu.be/Qof4077A\\_tq](https://youtu.be/Qof4077A_tq)

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Science Channel, Street Science "Super Glue"



[Play Video on YouTube: https://youtu.be/U7deO0mrxBM](https://youtu.be/U7deO0mrxBM)

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## Are Cyanoacrylate Glues Food Safe?

- Super Glue is not considered Food Safe.
- Exposure risk appears to be low.
- Two-part glues the recommended alternative.

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## Two Part Epoxies JB Weld



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## Fabric Glue Fabric Fusion vs. E6000

- Both are washer/dryer safe, clear and flexible
- Fabric Fusion is water-based urethane
- E6000 is solvent-based
- Both work well with porous materials, leather
- E6000 is best for vinyl
- E6000 is more peel resistant



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# Masonry and Construction



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## Plastics



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## Drain, Waste and Vent Plumbing PVC and ABS pipes

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## Polystyrene, PVC and ABS



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Styrofoam  
Closed Cell Polystyrene Foam



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Polypropylene and  
PETE (Polyethylene Terephthalate)



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## Polyethylene LDPE and HDPE

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- Notorious for No Good Glue Option.
- JB Weld Plastic Bonder might work.
- Heat welding is often recommended.



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## Questions

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- Two ceramic items, a mug and a little dish. I don't use a dishwasher.



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## Questions

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- Hard plastic stand for a magnifying glass/lamp. The contact area is small.



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## Questions

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- I need to remove heavy glue from stone tiles that came off a table top and glue them back on.

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## Questions

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- How do you keep glue from drying out?



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## Questions

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- How can I identify which glue needs air, which does not?

## Conclusion

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## Products

### PVA Glues

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- Basic “White” glue
  - Elmer’s Glue All and Aleene’s Tack Glue\*
  - Aleene’s has Lower Moisture Content than Elmer’s
  - Aleene’s is Thicker and Dries Faster
- PVA Wood Glues
  - Yellow. Contains additives to be sandable and paintable
  - Select Exterior grade
  - Elmer’s Wood Glue and Titebond Wood Glue

## Products

### Super Glue

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- Krazy Glue
- DAP Rapid Fuse
- Multi-pack at the Dollar store

## Products One Part Glues

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- Sugru
- E-6000
- Aleene's Fabric Fusion
- Loctite PL Polyurethane Construction Adhesive
- Liquid Nails Heavy Duty Construction Adhesive



## Products Two-Part Glues

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- JB Weld
- JB Kwik Weld
- JB Clear Weld
- JB Plastic Bonder



## Credits

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- Science Channel, Street Science “Super Glue”
- Jane ní Dhulchaointigh, Sugru
- Ewing Irrigation, [ewingirrigation.com](http://ewingirrigation.com), Phoenix, AZ