

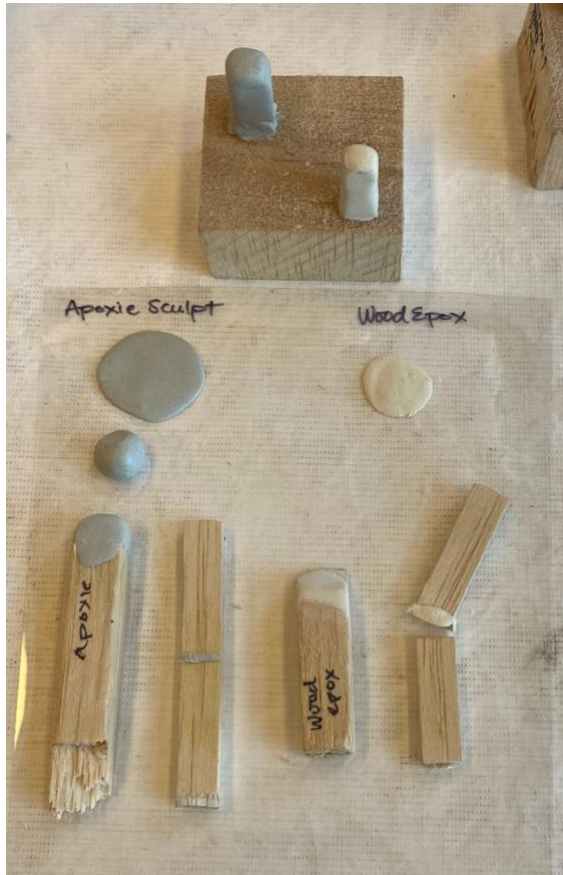
Epoxy Testing for Thammat (63.4)

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Each epoxy was tested as a butt join adhesive, as a gap filler, to build out over a broken wood element and to build out over a screw.

Material	Observations during mixing and use	Observations after cured
Apoxie Sculpt	• Easy to work with and mix • Part B is much thicker than A and slightly gummy • Instructions said to wait 5 minutes between mixing and use – tried with and without this wait period and noted no difference in handling properties • Held together well • Didn't adhere very well to wood substrate – though it did stick • Held a butt join together well • Smoothed very nicely with water Key Takeaways: Great! Worked well as a filler and adhesive, good for building	• Fantastic adhesive strength • Okay to carve • Relatively easy to sand/smooth
WoodEpoxy	• Very light • Easy to mix • Somewhat crumbly, sandy feel • Didn't adhere very well to wood substrate • No adhesive strength – would not hold a butt join together at all • Smoothed nicely Key Takeaways: Good. Better as a filler than adhesive, good for building	• Feels a little gritty to the touch • No adhesive strength • Easy to carve • Very easy to sand/smooth
SculpWood Putty	• Light and sandy feel, a little odd when mixing • Easy to mix • Somewhat crumbly • Didn't adhere very well to wood substrate • No adhesive strength – would not hold a butt join together at all Key Takeaways: Good. Better as a filler than adhesive, good for building	• Easy to carve • Relatively easy to sand/smooth • Some adhesive strength but left odd gap and squeeze out – not great for gap filling
SculpWood Paste	• Sticky and gloopy • Easy to mix • Little structural integrity, thin and not very viscous but thicker than anticipated • A bit hard to control application – may be okay if easy to shape after curing • Cannot smooth or shape very well • Some adhesive strength Key Takeaways: Best for areas that require deeper penetration (insect damage, splits etc.), not good for building	• Fantastic adhesive strength • Okay to carve • Harder to sand/smooth once cured, don't overfill too much

Images:



Tests using Apoxie Sculpt and WoodEpoxy



Tests using SculpWood Putty and Paste

Initial Thoughts:

Liked Apoxie best for adhesive strength and modeling – felt like clay, and easy to smooth

WoodEpoxy and Sculpwood Putty very light, good for filling, okay for building, less structural integrity

SculpWood Paste will be good for splits and areas that require less viscosity for penetration

Final Takeaways:

Use Apoxie Sculpt or Sculpwood Paste for any joins/if you need adhesive strength

Use Apoxie Sculpt, Sculpwood Putty or WoodEpoxy for building/modeling

Use WoodEpoxy or Sculpwood putty for anything that requires major carving/shaping

Use Sculpwood Paste for getting into tight places/nooks and crannies