

Lascaux 498 HV Tissue (1:4 in water)

Materials and Tools:

- Lascaux 498 HV
- DI water
- silicone release Mylar
- kozo tissue, 5-9 gsm
- 3" Hake brush

Prepare adhesive mixture:

A 1:4 volume to volume mixture of Lascaux 498 HV to water was found to produce a good pre-coated tissue for mending paper. Use the displacement method for measuring the thick, viscous Lascaux 498 HV: Fill a 250 mL beaker with 200 mL DI water, then add Lascaux 498 HV until you bring the entire liquid in the beaker up to the 250 mL mark. Mixing the solution for 10-15 min. using a magnetic stirrer gives the best results, but stirring slowly with a glass rod is fine. Avoid shaking, as this will introduce bubbles.

Precoating:

Precut tissue to be 2" smaller than silicone release Mylar. Label with formula, tissue, and date made. Work on a dark surface. Lay tissue on silicone release Mylar and gently brush adhesive mixture through the tissue with the "Union Jack pattern" followed by parallel stripes. Let dry thoroughly.

The silicone release Mylar is reusable if excess adhesive is cleaned up with blotter while it is still wet. Tissue can be stored on the silicone release Mylar until ready to use, or removed and stored between sheets of silicone release paper.

Applying with heat:

Cut out pieces with scissors or a scalpel. Apply the tissue to the tear adhesive side down. Lightly touch the tissue with the bare iron to position and secure it. Place silicone release paper over the mend. Apply heat for about 5 seconds, through silicone release paper, using a tacking iron set to about 110 - 120°C. Set under weight, such as a small plexiglass square, until cool.

Applying with ethanol:

Saturate a 3"x5" piece of thick blotter with ethanol and place in a polyester sleeve. Cut piece of coated tissue for mend. Pick up tissue with tweezers, lift cover of polyester sleeve, and gently touch the adhesive side of tissue to blotter. Quickly close the polyester cover over the tissue and gently apply pressure over length of mend. Remove tissue from ethanol/blotter packet. Using too much solvent washes the adhesive away. Apply the tissue to the tear adhesive side down. Place polyester webbing on top of the mend and press with Teflon folder. Let dry under blotter and weight.