

## Bending with the Water Soluble Bending Matrix

Using the bending matrix is as simple as mixing the powder with water, pouring it into an annealed tube, and freezing for more than 8 hours. We have tried many different ratios of powder to water and have decided it is up to the user to choose. Typically the recommended viscosity is similar to melted ice cream.

When mixing the powder for the first time let the mixture sit for 20-30 minutes after initially adding water. After this time the matrix should have soaked up all the water leaving a thicker mixture. Add more water and you are ready to go.

The bending matrix will work when mixed with any amount of water. The usual starting point we recommend is to add enough water to get the mixture to the thickness of cake batter. For smaller diameter tubes we mix it thinner, and larger tubes are mixed thicker. This is just for ease of filling tubes.

The liquid bending matrix will turn purple when activated with water. We add dye to ensure that the compounds in the premade mix are mixed evenly ensuring a consistent use.

It is important to note that a good bend is more than what you fill the tube with. Proper annealing processes and bending fixtures are paramount to a successful bend. As always I am happy to advise anyone who is less experienced in bending tubing on where and how to start.

This mix does not require a low temperature freezer. A household freezer is sufficient though it is recommended to get the freezer on the lowest temperature setting and to be careful not to over crowd the freezer.

We welcome any feedback and are happy to answer any questions about the use and applications of our product.

Thank you for your support,  
Miles O'Malley  
O'Malley Brass Instruments  
[orders@omalleyhorns.com](mailto:orders@omalleyhorns.com)