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GlasCast Tech Sheet

Read Carefully Before Use

Caution: The product requires heating for use. The following safety precautions must be followed to avoid serious injury.

1. Not for use by minors under 16 years of age without close adult supervision.
2. Do not heat beyond 311°F / 155°C during use.
3. Do not allow direct contact with heating element.
4. Heat only in open pots or industrial grade ventilated convection ovens.
5. Use in well-ventilated area.
6. If material produces significant smoke or displays color change, reduce heat immediately.
7. Always wear safety glasses with side shields when heating or handling this material.
8. Pour carefully and use protective clothing (gloves, etc) as appropriate. Molten material can stick to skin and cause severe burns.
9. Never bring water, liquids or water/fluid containing material into contact with molten compound. Rapid boiling and splattering may result.
10. Prepare mold before heating material. Rehearse pouring procedure. Make sure mold is clean and free of liquids and that mold material does not contain liquid.
11. Although the compound should not sustain flame in isolation, it should be assumed to be flammable. Never bring into contact with an ignition source such as open flame, hot burners, halogen lights, etc.
12. Never heat material in presence of porous material (such as fabric) which can wick molten compound. Material will sustain and feed flame when wicked into most porous substances.
13. In the event of a fire involving the material, use of water can cause spreading and splattering. Use baking soda, class B fire extinguisher, or snuff the flame with a lid.
14. Material is non-toxic but is not intended for human consumption or medical applications.
15. Never allow unsupervised handling of the material by small children.
16. Do not peel material from burns in the event of contact with skin, seek immediate medical treatment.

Procedure

Stove / Hotplate:

1. Break desired quantity of material into metal saucepan. Color can be added later. See ‘Adding Color’ below.
2. Place saucepan on heating element, then set element to low-medium heat.
3. Watch carefully for melting where material touches pan.
4. Adjust heat to only allow slow melting to prevent ‘scorching’ of material.

5. Allow material to completely melt to cooking oil viscosity. Stir to produce uniform melt. During this process you can remove bubbles by 'dotting' them gently while stirring.
6. Slowly and carefully pour into mold.
7. Patience is required for cooling. Allow complete cooling to room temperature.
8. With practice, material can be used in hundreds of applications.

Oven:

1. Use only industrial grade ovens with suitable ventilation and appropriate safety review.
2. Preheat oven to 311ºF / 155ºC.
3. Place material in metal pan and place in oven.
4. Allow about 30 minutes for the material to melt. Watch carefully for smoking or overheating.
5. Remove container of melted material and gently stir to produce good mixing. 'Dot' out bubbles.
6. Return to oven for 5-10 minutes. Remove and pour.

Coloring

(Use non-toxic wax based crayons, i.e. Crayola Crayons, Binney & Smith, a Hallmark Company)

1. Prepare molding compound on hotplate or oven ready to pour as described above.
2. Chose crayon color desired.
3. Remove crayon wrapper to bare wax.
4. Stir in crayon by dipping crayon into material. Crayon can also be added in chips. Mix until desired color level is achieved before pouring.

Useful Tips

Shock/Cracking: If cooled too fast, GlasCast can crack or break just like glass.

Shrinkage: Material exhibits minimal shrinkage (approx. 7%). To correct for unwanted shrinkage, refill mold to desired level.

Mold Construction Material: It is important that mold material does not contain moisture. Plaster of Paris, modeling clay, even materials like Playdoh, can sometimes be useful for mold construction. We recommend test pour into any mold to make sure mold is compatible. Material releases easily from aluminum, (foil, etc.) and Elastack Easy Pour Molding Compound is useful as a mold material.

Heat Polishing: GlasCast can be sanded and heat polished to renew glass-like luster by using a heat gun. This takes practice.

Heat Forming: GlasCast can be gently heated and formed using a heat gun. Just as in glass blowing, the material must be slowly heated and cooled to avoid stress.

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