



SimpliCast - Frequently Asked Questions

What is the correct mixing ratio of Powder (Part A) to Liquid Binder (Part B)?

The overall mixing ratio is 2.5:1. This means that there will be 2.5 parts of powder (Part A) to 1 part liquid binder (Part B).

Alternatively please also refer to our referencing mixing table on the Casting Components web page for commonly mixed volumes and their respective powder to liquid quantities.

Please Note: All measurements are BY WEIGHT of Part A and B.

How do I mix SimpliCast?

1. Carefully weigh the correct amount of powder (Part A).
2. In a separate container weigh the correct amount of liquid binder (Part B).
3. To a mixing container add $\frac{3}{4}$ of the bonding liquid (Part B) then add the powder (Part A).

Carefully mix to make a smooth paste.

**** Note**** various colours can be obtained by adding SimpliCast colour pigments or any water based colour pigment.

4. Add the rest of the liquid binder (Part B) and mix thoroughly until a smooth consistency is obtained.
5. Pour the SimpliCast mixture into a mould and allow to set for 45–60 minutes.

Please Note:

The maximum recommended mixing time is approximately 5–6 minutes.

What can I colour my SimpliCast with?

SimpliCast may be coloured with any of our Colour pigment range; however, SimpliCast is easily pigmented with any water or acrylic based inks, paints or powders.

Please Note: Due to the sheer number of water and acrylic based pigments, inks, paints and powders we CANNOT guarantee compatibility with our water based casting system.

How long should I mix for?

The aim when mixing is to achieve a relatively smooth, pourable consistency and as such we cannot give a predetermined length of time that will be required to achieve such results; however, adequate mixing results can be achieved in 2–3 minutes.

There is no predetermined length of time that is required to ensure proper mixing of both Part A(Powder) and Part B(Liquid Binder). The main goal is to achieve a relatively smooth pourable consistency.

What is the maximum recommended mixing time?

SimpliCast has an excellent “open time”—the length of time in which the mixture is still able to be mixed and poured—of 10–12 minutes.

Please Note: Above mentioned “open time” is at 23° C and may differ with varying temperatures.

When can I de-mould my castings?

SimpliCast has a relatively quick setting time and therefore can be de-moulded in approximately 1–2 hours if required.

Although NOT necessary, in order to achieve maximum physical strength it is advisable to allow your casting to cure overnight or for 24 hours.

Why is my mould and casting getting warm?

This is completely normal as the chemical interaction between Part A(Powder) and Part B(Liquid) is exothermic—meaning that the interaction produces heat—and will generally only occur when mixing larger quantities or casting in deeper/thicker layers.

How can I clean SimpliCast from my workstation?

SimpliCast once set becomes incredibly hard and resistant to abrasion, heat and liquids.

All of these properties make it excellent for all your various castings but it is advisable if coming into contact with fabric or hard surfaces to clean them as soon as possible. Simply wiping the surface with a damp cloth or tissue should remove the product when still liquid or partially set.

If SimpliCast has already hardened/set you may simply scrape off the hardened material in order to remove it.

Is SimpliCast safe?

Yes! SimpliCast is a casting system and is comprised of a mineraline powder and a water based liquid binder. In addition to the product being predominantly water-based it also has the following properties:

- No Solvents
- No Volatile Organic Compounds (VOC's)
- No Harsh Chemicals
- More Environmentally Friendly
- Low Odour

Please Note: Our product has not been evaluated for food safety and therefore is NOT food safe. SimpliCast materials can be used for decorative tableware and castings; however, we advise against the placement or storage of food or liquid in the finished castings.

Should you have any further specific product questions please kindly email us at info@simplicast.co.za & we will get back to you as soon as possible.