

# Product Data Sheet:

hydroflow

Water Based Casting Compound



**hydroflow is a water based casting compound that comes in two components - a mineral powder and a water based acrylic binder**

- Environmentally friendly
- Perfect for coasters, platters, vases, planters, soap dishes and many other items
- Ideal for creating ceramics & textured art pieces
- Can be used to create terrazzo effect
- Easily sanded to create different finishes
- Everything you need in 6 kit sizes

A sustainable solution for creating functional & decorative items with a cement texture & appearance. Can be used to make smooth or textured pieces, hydroflow will replicate the most detailed texture in your mould to produce unique jewellery, creative arts and crafts.

It has thousands of uses, limited only by the shape of your mould. Patterns can be created in newly poured pieces using a variety of tools.

Water based and user-friendly (no harsh chemicals or solvent content).

Mix ratio by weight : 2.5 parts Powder to 1 part Liquid Activator. (100ml of the fluid activator will weigh 100g).

## Mixing & Application

### When using the whole kit

Add colour to the hydroflow activator fluid before adding the powder. Add small amounts of powder at a time and mix in stages until you have achieved a lump-free consistency. Immediately pour into your mould and agitate to clear trapped air bubbles. If it thickens rapidly whilst pouring do not be concerned, simply stir again and it will become as runny as before.

### When using part of the kit

Pour the desired amount of hydroflow activator fluid into your mixing container. Add colour to the hydroflow activator fluid before adding the powder. Add 2.5 times the amount of powder to the fluid activator e.g if you started with 100ml (100g) activator fluid then you should add 250g powder. 2.5:1 is the default mixing ratio, but this is not set in stone. You can adapt the ratio with less or more powder to obtain a runnier or thicker consistency to suit the application.

Once you have mixed to a creamy consistency you can top up the pigment to achieve a stronger colour shade. Immediately pour into your mould and agitate to clear trapped air bubbles. If it thickens rapidly whilst pouring do not be concerned, simply stir again and it will become the same consistency as before. Allow to harden in 20-40 minutes. The mould will feel warm, this is normal. Demould in 1-2 hours.

## Adding colour

Use any water based pigment E.g. resi-TINT acrylic inks, acrylic paints or powdered tempura paints.

Any solid can be added (sand, mica, quartzite, dried shards of hydroflow etc).

## Drying / Demould Times

20-40 minutes / 1-2 hours, can be sanded after 2 hrs.

## Additional information

- hydroflow can be sanded using either dry or wet/dry sandpaper to expose any terrazzo aggregate added.
- Can be acid-etched with white vinegar when using stronger powder concentration, immerse for 30-60 minutes and clean off afterwards
- Heat resistant up to 125°C surface contact temperature
- Hydroflow is porous and can be sealed by brush using any acrylic / PVA sealer