

# JESMONTE<sup>®</sup>

MADE FROM



## AC100 User Guide



Kind to  
Self  
Others  
Planet



# What is Jesmonite AC100



Jesmonite AC100 is supplied as two components, a water-based acrylic liquid, and a mineral base.

Jesmonite AC100 is a water-based composite material known for its versatility, sustainability, and ease of use in a variety of applications, from art and design to construction. It is often used in the creation of sculptures, architectural elements, furniture, and decorative pieces.

A range of ancillary products is also supplied further extending the materials versatility. Jesmonite AC100 is suitable for internal and external use, however if used externally a sealer or suitable paint system is recommended to protect surface appearance.

Project specific advice can be obtained by emailing our technical department: [Support@jesmonite.co.uk](mailto:Support@jesmonite.co.uk)

# Preparation

To ensure Jesmonite works as expected, it's important to use accurate scales and a Jesmonite High-shear Mixing Blade.

Not following these steps can result in weaker material, slower curing, and less durability.

Workshops should be warm, dry, and kept out of direct sunlight. Avoid places where solvent-based materials are often used.

Make sure mixing containers are clean, dry, and the right size





# Mix ratios

The standard mix ratio for AC100 is as follows:

AC100 Liquid:  
1 part by weight.

AC100 Base:  
2.5 parts by weight

## Adjustments to the ratio:

For the addition of additives such as stone and metal fillers, sands, lightweight fillers etc.

Please refer to the specific sections of the instructions below. It is also possible to mix the material at a 3:1 ratio to produce a fast set which can be used to fill joints, air bubbles, or to join castings.

## How much will i need?

Square Mould = 200g of mixed AC100

56g AC100 Liquid

144g AC100 Base

Hexagon Mould = 126g of mixed AC100

36g AC100 Liquid

90g AC100 Base

<https://www.jesmonitecalculator.com/>

# Mixing



## **Pigment:**

The highest amount to add is 2% of the total mixed Jesmonite (or 20g per kg). For smaller casts, just a few grams will be enough. Adding too much pigment can stop the Jesmonite from setting or make the cast weak and breakable.

## **Solid Colour:**

To achieve a solid colour, mix the pigment into the pre-weighed AC100 liquids. Blend well, then slowly add the Jesmonite base while stirring until the mixture is smooth and lump-free.

## **Marbling Effect:**

For a marbled effect, add the pigment to the mixed Jesmonite and swirl it around to create different patterns. You won't need much pigment for this.



# Casting

For simple casts, pour a small amount of the mix into the mould and spread it evenly. To prevent air bubbles on the surface, use a clean, dry brush to coat the surface and reach the edges of the mould.

You can also tap the mould to remove air bubbles or use a vibrating plate. Then, fill the mould with the rest of the mixed Jesmonite. Gently tapping it will help any bubbles rise to the surface. Leave the cast to set for about 40 -60 minutes.

Once you remove it from the mould, it will reach full strength after 24 hours. Jesmonite needs time for all the moisture to evaporate. If you leave it in the mould too long, it can sweat, leave marks, and not dry completely.



Note: In hot environments, your Jesmonite may set faster and in colder environments, your Jesmonite may need more time to full set.



# Finalising

## Surface Finish:

Jesmonite AC100 contains a high quality pure acrylic resin that can be polished with a clean cotton cloth. Excellent results can be achieved with a wide range of waxes and polishing machinery, and Jesmonite AC100 is also compatible with a wide range of water-based sealers and varnishes.

## Storage:

As a basic rule liquid containers should be kept well sealed to prevent water evaporation and skin forming, freezing must be avoided. They should be stored at a constant temperature between 5 – 25°C and Base should be kept dry and stored at 5 – 25°C.

## Cleaning Up:

Jesmonite is water based, its easy to clean up when you have finished. Scrape any excess unused Jesmonite into the bin then wash your hands, mixing pots, brushes, and the mould in warm soapy water. It's that easy! You can use White Spirit to remove any pigment residue from your mould if necessary.





# Contact Information

Jesmonite® Is A Registered Trademark The above information and recommendations are based upon our experience and are offered merely for advice. They are offered in good faith but without guarantee, as conditions and methods of use are beyond our control. it remains the responsibility of the end user to determine the suitability of the materials for the particular purpose intended.

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