



## JESMONITE AC100 - WATER BASE ECO-RESIN

Jesmonite AC100 is a **two-component, water-based acrylic resin** that is safe, sustainable, and easy to use—perfect for artists, designers, makers, and creative professionals. It is **solvent-free and VOC-free**, ideal for **decorative casting** and high-precision laminating. AC100 is commonly used for creating **interior decor objects** such as vases, trays, modern candle holders, and wall panels. It can achieve **smooth or highly detailed finishes**, and when reinforced with *Jesmonite Quadaxial Glass Mesh*, it allows for strong, lightweight hollow castings. Widely used in **film and theatre sets**, prototyping, furniture making, and sculptural work, it is also fully **pigmentable** with Jesmonite pigments. Available as a **SET (powder + liquid)** or with **separate components**, AC100 offers full flexibility for any project.

### Main Features

- Water-based, eco-friendly and non-toxic formulation
- Fast setting and high initial strength
- Customizable with pigments and fillers
- Suitable for indoor and outdoor use (with sealer)
- Excellent impact and mechanical resistance

### Benefits for You

- Perfect for homeware, prototyping, and interior design
- User-friendly even for beginners
- Lightweight, fire-resistant, and durable
- Professional matte, smooth finish

### Technical Specifications

- **Mix ratio:** 2.5:1 (powder:liquid by weight)
- **Wet density:** 1845 kg/m<sup>3</sup>
- **Dry density:** 1745 kg/m<sup>3</sup>
- **Initial set time:** 15–20 min (at 18°C, no retarder)
- **Setting expansion:** 0.15%
- **Compressive strength:** 25–30 MPa
- **Tensile strength:** 25–35 MPa
- **Flexural elastic limit (LOP):** 15–20 MPa
- **Flexural strength (MOR):** 50–65 MPa
- **Young's modulus:** 5–6 MPa
- **Impact strength (Charpy):** 30 KJ/m<sup>2</sup>
- **Moisture movement:** <1%
- **Fire rating:** B.S.476 Part 6 & 7 – Class “O”
- **Freeze/thaw resistance:** Excellent – 50 cycles with no damage

**Order Jesmonite AC100 now** and bring your creative ideas to life with a safe, durable and high-performance material.

### SPECIFICHE

SKU	Format	Packaging
55150	Set	1,75 KG (1,25 KG + 500 GR)
54319	Set	3,5 KG (2,5 + 1 KG)

SKU	Format	Packaging
54320	Set	17,5 KG (12,5 + 5 KG)
54324	Set	35 KG (25 KG + 10 KG)
57505	Powder Part	2,5 KG
57506	Powder Part	12,5 KG
57507	Powder Part	25 KG
57508	Liquid Part	1 KG
57509	Liquid Part	5 KG
57510	Liquid Part	10 KG

