TECHNICAL DATA SHEET

JESMONITE® AC100

- **Product Description**

Jesmonite AC100 is a water based, two component, acrylic polymer/mineral resin system. The system is suitable for a wide range of casting and laminating applications where the end user wants to reduce the many risks associated with conventional solvent based systems. A range of ancillary products including decorative and functional fillers, control chemicals, pigments, and glass reinforcements are also provided making the material extremely versatile. The material is suitable for internal and external use, however if used externally a sealer or suitable paint system is recommended to protect surface appearance.

- **Specifications**

Mix Ratio	2.5:1 parts Powder to Liquids ratio by weight
Wet Density	1845 kg/m^3
Dry Density	1745 kg/m^3
Initial set	15 – 20 minutes (18°C, No Retarder)
Expansion on set	0.15%

- **Other Properties**

Compressive Strength	25 – 30 MPa
Tensile Strength (UTS)	25 – 35 Mpa
Bending Elastic Limit (LOP)	15 – 20 Mpa
Bending Strength (MOR)	50 – 65 Mpa
Youngs Modulus	5 – 6 Gpa
Impact Strength (Charpy)	30 KJ/M²
Moisture Movement	<1%
Fire resistance	B.S.476 Part 6&7 – Class ‘O’
Freeze/Thaw resistance	Excellent -Test specimens undamaged
Wet/Dry 50 Cycles	Test specimens undamaged

- **Application Areas**

Cast and laminated decorative mouldings, and with the inclusion of suitable glass reinforcements can be utilised for lightweight, high-impact panels. Jesmonite can provide a fire resistant coating for many expanded foams for theme park and theatre props.

- **Key Attributes**

Solvent free – No VOC’s
Abrasion resistance and impact strength
Compressive and tensile strength
Rapid curing and high early strength gain

- **Packaging**

Liquids are supplied in 1kg, 5kg, and 25kg Canisters, Powders in 5kg and 25kg buckets. Bulk IBC/FIBC supply available on request.

- **Storage**

As a basic rule liquid containers should be kept well sealed to prevent water evaporation and skin forming. They should be stored at a constant temperature between 5-25^{o}C and used within six months. Freezing must be avoided. Powders should be kept dry and stored at 5-25^{o}C.

- **Distributor Details**