# TECHNICAL DATA SHEET (TDS300/20)

# AC300

# JESMON MADE FROM TE

### PRODUCT DESCRIPTION

Jesmonite® AC300 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 designed for internal use only. The material is an economic alternative to Jesmonite AC100 where external durability is not essential.

### **SPECIFICATIONS**

Mix ratio 2.5:1 parts Base to Liquids ratio by weight

Wet density 1845 kg/m³ Dry density 1745 kg/m³

Initial set 15 – 20 minutes (18°C, No Retarder)

Expansion on set 0.15%

### **OTHER PROPERTIES**

Compressive strength 30 - 35 MpaTensile strength (UTS) 20 - 25 Mpa Bending elastic limit (LOP) 15 - 20 Mpa Bending strength (MOR) 50 - 65 Mpa Youngs modulus 5 - 6 Mpa Impact strength (Charpy) 30 KJ/m<sup>2</sup> Moisture movement <1% EN13501-1 Fire Classification B-s1-d0

Freeze/Thaw resistance Excellent – Test specimens undamaged

## **APPLICATION AREAS**

Jesmonite AC300 is suitable for both cast and laminated decorative mouldings, and with the inclusion of suitable glass reinforcements can be utilised for lightweight, high-impact panels. It also provides a Class 1 fire resistant surface coating for expanded foams for theme parks, theatre props, sculpture etc. The material provides users with a water-based alternative to standard Glass Reinforced Polyester for rigid moulds and tooling.

# **KEY ATTRIBUTES**

Bulk supplied material to reduce costs and maximise transport efficiency. General purpose material with a wide range of applications.

### **PACKAGING**

AC300 is supplied in kit form in two formats. Liquids are supplied in 1,5,10,20kg cannisters and base in 2.5kg bucket, 12.5 kg bucket and 25kg bag.

# 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  $5-25^{\circ}$ C and base should be kept dry and stored at  $5-25^{\circ}$ C.

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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.

### **Contact details**

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