

# AC830

**JESMONITE**  
MADE FROM  
**TE**®

## PRODUCT DESCRIPTION

Jesmonite® AC830 is a rapid setting acrylic polymer modified cement-based casting composite. It is a shrinkage-compensated material of low permeability and is durable in all conditions of external weathering. The compound is designed for fine decorative castings and is suitable for statuary, water-features, and decorative cast objects that are externally durable and frost resistant. AC830 Casting is supplied in a white colour that can then be pigmented using a range of both powder and liquid cement pigments. AC830 is a wet-cast system that enables the manufacturer to create easily compacted castings without expensive vibration equipment. It is supplied as two components, a water-based acrylic liquid, and a blended Base. A super-plasticiser is supplied to further enhance strengths, ease of casting, and ultimate durability. A bespoke colour matching service is also available.

## SPECIFICATIONS

Mix ratio	7:1 (Base to Liquids)
Wet density	2050 kg/m <sup>3</sup>
Dry density (EN1170-6)	1950 kg/m <sup>3</sup>
EN13501-1 Fire Classification	A1
Compressive strength (EN 1015-11)	45N/mm <sup>2</sup> (45Mpa)
Water absorption (EN1170-6)	4.89% (24hr)/ 5.45% (7 day)
Drying shrinkage	0.1%
Flexural strength (BS 492)	Pass
Thermal expansion (BS1902)	0.009mm/m per degree C (= 9 10 <sup>-6</sup> /°K)

## APPLICATION AREAS

A fast setting, high strength wet cast alternative to cast stone, manufactured stone, and cast decorative concrete.

## KEY ATTRIBUTES

- Improved flexural strength and stability
- High durability in all external environments
- High compressive and tensile strength
- Rapid curing and high early strength gain
- Shrinkage compensated and dimensionally stable

## PACKAGING

Liquids are supplied in 25kg containers and 1,000kg IBC's, powders in 25kg buckets and FIBC bulk bags.

## 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°C and used within twelve months. Freezing must be avoided. Base should be kept dry and stored at 5 – 25°C and used within six months.

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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.

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