

AC830

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 ³
Dry density (EN1170-6)	1950 kg/m ³
Compressive strength (EN 1015-11)	45N/mm ² (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 ⁻⁶ /°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 canisters 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 six months. Freezing must be avoided. Base should be kept dry and stored at 5 – 25°C.

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 is the responsibility of the end user to determine the suitability of the materials for the particular purpose intended.

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THE KEY BENEFITS OF USING JESMONITE



Stronger

Strong, flexible and more durable, making it high impact resistant.



Finer

Replicates the very finest detail.



Greener

Water-based not solvent-based making it kinder to the environment.



Lighter

Lighter than stone, glass-reinforced concrete, sand and cement products – perfect for film sets.



Safer

Fire-resistant with a class zero fire rating, reduced smoke density and toxicity characteristics. Solvent free with no VOC's.



More choice

Can be pigmented to any colour or RAL reference. It can also mimic any texture and reproduce the effect of materials such as stone, metal, wood, leather and fabric.