

AC930

PRODUCT DESCRIPTION

Jesmonite® AC930 is a rapid setting acrylic polymer modified cement based composite. It is a shrinkage-compensated material of low permeability and is durable in all conditions of external weathering. Unlike AC730 (designed for decorative stone replication) AC930 is pale grey in colour. The compound is alkali free and as such is free from the efflorescence associated with ordinary Portland cement based systems. AC930 is formulated as a high specification, glass reinforced cement. It is supplied ready to mix as two components, a water-based acrylic liquid, and a blended Base.

SPECIFICATIONS

Mix ratio	5:1 – 6:1 (Base to Liquids)
Wet density	1950 kg/m ³
Dry density	1850 kg/m ³

OTHER PROPERTIES

Water uptake/porosity	BS EN 1170-6	2.26%
Freeze-thaw resistance	DD CEN/TS 12390-9	300 cycles (normal max 56 cycles)
Fire resistance	B.S.476 Part 6&7	Class 'O'
Dimensional stability	BS EN 1170-7	Shrinkage = 0.83/Expansion = 1.28
Weathering/durability	BS EN ISO 4982	1008 Hrs. – No significant change
Compressive strength	BS EN 12390-3	56Mpa (N/mm ²)
Flexural strength	BS EN 1170-5	LOP 8.9Mpa – MOR 26.3Mpa

APPLICATION AREAS

Glass reinforced decorative architectural mouldings, and small castings. Glass reinforcements such as Jesmonite AR Quadaxial** Fabric or 13mm AR Glass Chopped Strands can be utilised for lightweight, high-impact panels. It can also be used to create garden ornaments and statuary, and is suitable for water-features. AC930 is supplied as a pale grey material, and as such is most suited to applications where paint will be used to create final colour, or in price sensitive bulk applications.

KEY ATTRIBUTES

Improved flexural strength and stability
Excellent abrasion resistance and impact strength
High compressive and tensile strength
Rapid curing and high early strength gain
Shrinkage compensated and dimensionally stable
Very low water absorption/porosity

PACKAGING

Liquids are supplied 25kg canisters and 1000kg IBC's, Base in 25kg buckets and 1,000kg FIBC's.

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.

**Products made from AC930 must be made using Alkali Resistant Glass Fibre to BS/EN1170 or PVA Fibres.

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.