

FLEX METAL

LIQUIDS

PRODUCT DESCRIPTION

Jesmonite® Flex Metal Liquids are supplied to be used with Flex Metal Base. Flex Metal Liquids are designed to work in a number of ways. The Liquids function as a thick resin medium that keeps the heavier Flex Metal Base in suspension – the key to making the system work. They act as a curing membrane to ensure that the cement component of Flex Metal Base hydrates fully, thus reaching full strength and durability. They also provide a degree of extra ductility due to the flexible and highly water resistant pure acrylic resin used. Additional benefits are reduced porosity, and increased frost resistance.

SPECIFICATIONS

Mix ratio	4:1 (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
Compressive strength	BS EN 12390-3	58Mpa (N/mm ²)
Flexural strength	BSEN 1170-5	LOP 8.9Mpa – MOR 23.6Mpa

APPLICATION AREAS

Glass reinforced decorative architectural mouldings, and small castings. Glass reinforcements such as Jesmonite Quadaxial Fabric or 13mm Glass Chopped Strands are recommended for lightweight, high-impact panels. It can also be used to create garden ornaments and statuary, and is suitable for water-features.

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
Increased ductility/flexibility

PACKAGING

Liquids are supplied in 1kg, 5kg, and 25kg canisters 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.

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.

Contact details

Jesmonite Limited
Challenge Court
Bishops Castle
Shropshire SY9 5DW
United Kingdom

Tel: +44 (0)1588 630302
Fax: +44 (0)1588 630304
www.jesmonite.com

THE KEY BENEFITS OF USING JESMONITE



Stronger

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



Lighter

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



Finer

Replicates the very finest detail.



Safer

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



Greener

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



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.