

Mixing

The results of strength testing of cement and other materials such as Lime and Fly Ash are dependent on the method and the quality of equipment used. A standard system for strength testing is based on compressive strength of mortar prisms.

In the USA, ASTM C109 and C190 are the definitive methods for determining compressive and tensile strength. The BS 4550 method using either 70.7 mm or 100 mm cubes has been retained in the UK only for comparative purposes. EN196-1 is now the definitive method.

The results of strength testing are dependent not only on method but also on the quality and accuracy of the testing machine used to determine compressive or flexural strength.

The correct mixing sequence and homogeneity of mix is important if consistent, repeatable test results are to be obtained. Mixers should be powerful enough to ensure that the motor's speed is not affected by the mix constituents; so designed as to ensure that the mixer action and blade does not break down individual sand particles and preferably provide automatic mixing cycles.

Automatic/Manual 5 litre nominal capacity Mortar Mixer

BS 3892-1, 3892-3, 6463-103, 4551-1, ISO 679, EN 196-1, 196-3, 413-2, 459-2, 1744-1, 13279-2, 1015-2, 13395-1, 13454-2

- **Microprocessor control**
- **Choice of automatic mixing cycles**
- **Sand and water dispenser options**

This mixer is designed to mix mortars and cement pastes to the requirements of the above standards. The mixing paddle has a planetary motion and is driven by a motor with a microprocessor based speed and program controller. The mixer can be operated either in an automatic or manual mode. When the mixer is used in the manual mode, the two mixing speeds can be changed by means of a rocker switch, without switching off the motor. In the automatic mode any one of the pre-set mixing programmes may be selected.

Specification

Dimensions (l x w x h)	530 x 350 x 580 mm	
Speeds (rpm)	Paddle	Mixing Head
Low	140 ±5	62 ±5
High	285 ±10	125 ±10
Rated power	180 W	
Bowl capacity	5 litres (approx)	
Weight	54 kg	

Ordering Information

EL39-0031/01
Automatic/Manual 5 litre nominal capacity Mortar Mixer
Complete with bowl and paddle.
For 220 – 240 V AC, 50 – 60 Hz, 1 ph



EL39-0031/01 Automatic/Manual 5 litre (nominal) Mortar Mixer with Accessories

Accessories

- EL39-0031/12** **Water Dispenser** comprising a pipette and mounting bracket. Dispenses water in to the mixing bowl to an accuracy of ±1 ml. *Weight 900 g*
- EL39-0051/01** **Automatic Sand Dispenser.** Thirty seconds after start of the mixing sequence sand is automatically discharged into the mixing bowl. The dispenser is designed to allow for a discharge time of approximately 30 seconds. Only for use with EL39-0031/01 Mixers, power is supplied from the mixer. *Weight 5 kg*
- EL39-0060** **Bowl Cover**
- EL39-0065** **Scraper** plastic 200 mm long. Pack of 5

Spares

- EL39-0031/10** **Paddle, stainless steel** complies with EN 196
- EL39-0031/11** **Bowl, stainless steel** complies with EN 196. 5 litre capacity (approx)