

## Light Weight 3 Component

**Guardian EML3** is a solvent free, 3 component, thixotropic repair mortar which when mixed produces a trowelable mortar with good adhesion to cement bound surfaces. Easy to use multi-purpose repair material and adhesive.

### USES & ADVANTAGES

**Guardian EML3** can be filled to the desired consistency by the addition or reduction of Part C. This provides more flexibility in the products application. It can be used for vertical or overhead filling of voids, as a repair mortar and protective linings to concrete.

**Advantages include:-**

- Rapid hardening.
- Unaffected by high humidity.
- Use on both damp or dry surfaces.
- Excellent adhesion to concrete.
- Shrinkage free hardening.
- Chemical resistance.
- Abrasion & impact resistance.

### PROPERTIES

<b>Appearance:</b>	Grey (A: Transparent, B: Transparent, C: Grey)	
<b>Density:</b>	Approx. 1.49 kg/litre	
<b>Mixing ratio:</b>	Mix A + B and add C for the desired consistency	
<b>Pot Life:</b>	<u>Temperature °C</u>	<u>10 kg.</u>
	40	20 mins.
	30	30 mins.
	20	60 mins.
<b>Compressive strength:</b>	40 - 60 N/mm <sup>2</sup>	
<b>Flexural strength:</b>	20 - 30 N/mm <sup>2</sup>	
<b>Bond Strength:</b>	≥ 2 N/mm <sup>2</sup> (Concrete failure)	

**Note :** Characteristics of mixed product will depend on mixing ratio used. Part A + B must be mixed thoroughly for a minimum of 2 minutes prior to addition of Part C.

### SUBSTRATE PREPARATION

Surface preparation is important. All surfaces should be dry, clean, free from standing water, grease and all loose particles. Cement laitance should be removed by mechanical means.

### PRIMING

For adhesion of heavily filled mortars etc. the surfaces to be treated should be primed by mixing A & B in the packed ratio. Apply with a stiff brush, work in well. Priming is not required on small repairs except on damp surfaces.

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### MIXING

Mix component A and B thoroughly with a slow speed drill for a minimum of 2 minutes (Max 400 R.P.M.). Then add Component C for the desired consistency and mix until a homogeneous mortar is achieved.

### APPLICATION

For adhesion of heavily filled mortars etc. the surfaces to be treated should be primed by mixing A & B in the packed ratio. Apply with a stiff brush, work in well. Priming is not required on small repairs except on damp surfaces.

### IMPORTANT NOTES / SPECIFICATION CLAUSES

**Guardian EML3** may be applied in layers up to a maximum thickness of 5 cm. per layer (2 cm. for large areas). The minimum age of concrete should be 3-6 weeks depending on the climate.

Minimum substrate temperature = 5°C

Maximum substrate temperature = 40°C

When priming **Guardian EML3** from premeasured packs take a maximum of 10% for primer.

### CONSUMPTION

Approx. 1.49 kg. per m<sup>2</sup> at 1 mm. thick.

### CLEANING

Clean all tools and equipment immediately with Guardian Cleaner.

### PACKAGING

A : B : C 10 kg. premeasured sets or larger packaging upon request.

### STORAGE & SHELF LIFE

Store in dry conditions between 5°C - 40°C. The shelf life is 12 months when unopened and stored correctly.

### HEALTH & SAFETY

Avoid contact with skin and eyes and avoid breathing vapour. Use only in well ventilated areas away from heat, sparks or naked flame. Wear suitable protective clothing, gloves and eye protection when mixing or using. If poisoning occurs, contact a Doctor or Poisons Information Centre. If swallowed, do NOT induce vomiting give a glass of water. If in eyes, hold eyes open, flush with water for at least 15 minutes and see a doctor. If skin contact occurs, remove contaminated clothing and wash skin thoroughly with soap and water.

### TECHNICAL SERVICE

Guardian offers a comprehensive range of high performance, high quality products suitable for use within all aspects of the concrete repair and protection industry. In addition, the company offers a technical support package to specifiers, end users and contractors, as well as on-site assistance. The Guardian Coating Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

### QUALITY ASSURANCE (OEM)

ISO 9001 : 2015 verified by TUV Nord.