

VERSION: 02

ISSUED: FEB 2025

**LARSEN**

**ADMIXTURES**

**TECHNICAL DATA SHEET**

# Extra Strength Mortar Plasticiser

**TESTED TO BS EN 934**

**REDUCES THE WATER REQUIREMENT**

**REPLACES LIME**

**INCREASES FROST PROTECTION**

**REDUCES SHRINKAGE AND CRAZING**

**CHLORIDE-FREE**

Extra Strength Mortar Plasticiser is a plasticising/air-entraining admixture for site-mixed bricklaying and plastering mortars. It is manufactured from a blend of specially selected synthetic surfactants. Extra Strength Mortar Plasticiser improves the workability of mortar for masonry, brickwork and sand/cement rendering. In addition, it increases the resistance of the mortar to frost by entraining air.



For further information, consult our Technical Department.

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## TECHNICAL DATA SHEET

### PRODUCT INFORMATION

FORM	Liquid
COLOUR	Brown
PACKAGING	5L, 25L and 200L
STORAGE CONDITIONS	This product must be stored in closed containers protected from extremes of temperature. If the product has frozen, thaw at temperatures above +4oC and reconstitute by mechanical agitation only, before carrying out trials to ensure suitability for continued use.
SHELF LIFE	12 months in unopened manufacturer's containers

### TECHNICAL INFORMATION

SPECIFIC GRAVITY	~1.01g/ml
pH	~ approx. 8
CHLORIDE CONTENT	< 0.1% w/w
FREEZING POINT	0°C
DOSAGE	0.3 - 0.5 L per 100 kg cement

Extra Strength Mortar Plasticiser is typically used at a rate of 0.3 - 0.5 L per 100kg of cement. Dosage rates to achieve the desired workability will depend on the class of mortar, ambient temperatures, sand quality and cement type. Trial mixes should be carried out to determine the optimum dosage rate. For advice, contact Larsen Technical Department. Use clean, sharp, well graded sand for mortar and render mixes. Thorough mixing of the mortar is essential. Mixing should continue until a uniform consistency is achieved.

As a guide - Mix designation, compressive strength and composition for prescribed mortars without lime:

Traditional Mortar Designation	BS EN 998-2 Class	Nominal Volume Proportions		Typical Weight Proportions
		Cement:Sand		Cement %
(i)	M12	1:3		20.5-25.0
(ii)	M6	1:3-4		16.0-25.0
(iii)	M4	1:5-6		11.5-16.5
(iv)	M2	1:7-8		8.5-12.5

## DIRECTIONS FOR USE

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#### COMPATIBILITY

Extra Strength Mortar Plasticiser should be dispensed into the mixer with the gauging water. It should never be added to the dry cement. It should be dispensed separately to waterproofers and other additives. Lower dosages may be required when used in conjunction with some waterproofers. Extra Strength Mortar Plasticiser can be used with all types of Portland Cements. Some cements or pozzolanic materials may require increased dosages.

#### RESTRICTIONS

The mortar should be selected by reference to the British Standard Code of Practice for Use of Masonry BS 5628. All work should be carried out to current best practice, industry guidelines and British Standards. Fresh mortar must be contained in non-porous containers or similar, and the storage containers covered with polythene to prevent drying out. Protect the materials from frost. Dampen down bricks and blocks prior to use. Sands for masonry mortars must be evaluated for their suitability before use. Sands containing a high silt content may not be suitable. Trial mixes must be carried out to ascertain optimum working dosages. Severe overdosage can cause extensive air entrainment leading to weak, crumbly mortars.