

# PRESSURE POINTING MORTAR RANGE (PPM)

### **DESCRIPTION**

PPM Mortars are pre-blended cementitious products designed to provide a range of compressive strengths and are manufactured using ordinary Portland cements selected fillers and additives as appropriate for the required function.

Examples of use include brickwork renovation, re-pointing of brick and stonework prior to grouting. The heat of hydration is low with minimal plastic shrinkage characteristics.

### **MIXING AND PLACING**

The powder should be mixed using water which complies with BS EN 1008 (as for concrete).

Mixing can be carried out using drum type mortar mixers or by "hand" though the most efficient method is to use high shear mixers.

PPM mortar's are all designed to be placed using Pressure Pointing Machines, but they can be also placed using skeleton (cartridge) gun or by "hand".

### **PACKAGING AND STORAGE**

These mortars are available in nominal 25kg sacks, palletised and shrink wrapped. These may also be available in Intermediate bulk containers or in Bulk Powder Tankers.

If palletised they should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high.

These products should be used on a first in – first out basis.

Shelf life is minimum 3 months but could be in excess of 6 months subject to temperature and humidity.

If supplied in Bulk Powder tanker form the product should be stored in cement type silos with suitable dust control equipment.

### **PLACING INFORMATION**

Traditional good practice / techniques applicable to brickwork, block-work, masonry and "paving" construction apply to the placing of Pressure Pointing Mortars, but with specific regard to joints undergoing re-pointing they should be raked out to a minimum DEPTH of "One and a Half times" their width.

All loose mortar, dirt, broken brick etc, and vegetation MUST be removed from the joint. The joints must be pre-wetted to mitigate effects of suction.

Newly placed mortar should be adequately protected if exposed to drying winds or strong sun, using wet Hessian or polythene sheet for example.

Pressure Pointing should not be carried out at low temperatures. (Refer to BS8110). For placing, temperature should be 3°C and rising.

### **TYPICAL PRODUCT PERFORMANCE**

Values are derived from specimens produced at 0.18 w.s.r. @ 18-22°C, unless otherwise specified.

Product Ref	Compressive Strength (N/mm <sup>2</sup> ) at				Set Time Hours (Initial-Final)	WSR	Powder QTY (T) per m <sup>3</sup> Mortar
	1 Day	3 Days	7 Days	28 Days			
PPM 40	10	17	22	40	2-7	0.18	1.75
PPM 18	4	6	9	18	3-9	0.18	1.72
PPM 10	2	3	6	10	4-12	0.18	1.68
PPM 5	1	2	4	5	5-14	0.18	1.64