

### ALLCOAT Concrete Repair Mortar

#### Description

ALLCOAT Concrete Repair Mortar is pre-mixed magnesium phosphate cement blended with specially selected aggregates. The resulting mix produces a mortar which gives rapid setting and high early strength properties suitable for works carried out in raising or lowering carriageway frames and covers. Repairs can be carried out on concrete surfaces and with the speed of hardening; these may be brought into early use. The chemical mechanism will continue at temperatures down to 0°C thus enabling repairs to be carried out on floor areas in cold stores. Using suitable protection cold store area repairs may be carried out at temperatures down to -20°C.

The mixed mortar, when placed, will harden in approximately 10 minutes. The compressive strength gain will reach between 14N/mm<sup>2</sup> and 22N/mm<sup>2</sup> within 3/4 hour depending on the mix design used.

ALLCOAT Concrete Repair Mortar is a self contained product only needing to be mixed with water on site to produce a firm mortar. The product is chloride free and can be safely used with cast iron and steel units. The mortar can be placed in sections of 20mm to 50mm in thickness and greater thicknesses can be built up in layers. After placement no special curing is required in moderate ambient conditions.

#### Uses include

- Re-bedding of raised manhole frames
- Bedding of frames in new roads
- Support of road furniture
- Rapid repairs to concrete surfaces
- Repairs to cold room areas

#### Standards

ALLCOAT Concrete Repair Mortar has been tested in accordance with appropriate parts of BS 1881 BS 6319.



#### Typical Mortar Properties @ 20°C

##### Compressive Strengths

Mortar, water content 1.5 litres per 25kg ALLCOAT Concrete Repair Mortar

3/4 Hour	2 Hours	7 Days	28 Days
14N/mm <sup>2</sup>	26N/mm <sup>2</sup>	52N/mm <sup>2</sup>	57N/mm <sup>2</sup>

Concrete, water content 2.0 litres per 25kg ALLCOAT Concrete Repair Mortar.

3/4Hour	2 Hours	7 Days	28 Days
13N/mm <sup>2</sup>	23N/mm <sup>2</sup>	45N/mm <sup>2</sup>	49N/mm <sup>2</sup>

**Density:** 2200kg/m<sup>3</sup>

**Shrinkage:** Volume stable

**Bond strength – slant shear:** 40N/mm<sup>2</sup> ext