

# ROADMASTER RAPID PLUS

## HIGH EARLY STRENGTH BEDDING MORTAR

(D.o.T. HIGHWAY AGENCY SPEC HD27/04 COMPLIANT)

### DESCRIPTION

The Mortar comprises cement and a blend of graded selected aggregates and special additives.

This is a rapid set mortar which can be opened to traffic after approximately 60 minutes under ambient conditions (18 - 22°C) and complies with:-

Department of Transport HD 27/04  
Design Manual for Roads and Bridges Vol 7 Sec 2

Clause 3.11 Mortars for bedding iron work such as manhole cover frames during repairs may be trafficked when the strength is expected to be 20N/mm<sup>2</sup>. For rapid construction, this strength should be achieved within 2 hours.

### USES

The Mortar is intended for bedding applications that require high early strength to help reduce construction and road closure time. Specific highway uses include the bedding of inspection chamber frames and covers, gully grates, stanchion posts and many other street furniture applications. The mortar is compatible for use with concrete, brick and stone substrates.

### BENEFITS

- Performance
- Controlled quick setting
- High early strength
- Easy to use
- Pre-packed
- One component
- Only water to add

### PRODUCT DATA

Typical product performance <sup>(a)</sup>				
Compressive strength at 18 - 22°C N/mm <sup>2</sup>				
60 min	120 min	1 day	7 days	28 days
20	20-22	30-32	45-47	50-55
Flexural N/mm <sup>2</sup>				
60 min	120 min	1 day	7 days	28 days
3-3.5	3.5-4.5	4.5-5.5	8.5-9.5	9.5-10.5

(a) typical values; all tests carried out based on the optimum water:powder ratio 0.12

### YIELD

Based on the optimum water:powder ratio 0.12

Litres product/ 25kg sack	25kg sacks/ m <sup>3</sup> product
12.5	79

### MIXING

Mix complete sacks only using water which complies with BS EN 1008 (as for concrete).

For best results use a forced-action high-shear mixer. Alternatively, use a slow-speed drill or mix by hand.

The volume of water necessary will depend upon the consistency required.

Water content, Litres/25kg sack:	<u>Optimum</u>
	3

## Cementitious Systems

Add the powder steadily to the required pre-measured volume of water and mix until a homogenous consistency has been achieved.

### **APPLICATION**

#### **Substrate quality**

All substrates must be clean and free from laitence, dust and loose particles. All traces of contamination, such as oils, greases and chemicals, should be removed.

#### **Substrate preparation**

Proper surface preparation is vital to ensure the successful application and durable performance of the mortar.

All substrates should be dampened with water prior to the application of the mortar, but should be free from standing water.

The mortar should not be applied in thicknesses less than 10mm.

#### **Clean Up**

Tools and equipment can be cleaned easily with water. Cleaning of tools and equipment should be carried out as soon as practicable well away from the application area. Surplus material should be swept away and disposed of in accordance with the requirements of the Local Authority

### **PACKAGING & STORAGE**

The Mortar is supplied pre-packed in nominal 25kg sacks which should be stored under cover and clear of the ground. Storage conditions should be dry. Do not stack more than two pallets high; protect from moisture and temperatures below 5°C. Under normal conditions, in unopened packaging, the shelf life is 9 months.

### **QUALITY CONTROL**

Factory blended, tested and packaged in the UK for Adomast Ltd to quality control procedure in accordance with BS EN ISO 9001 Series.

### **HEALTH & SAFETY**

Health and safety advice, which must be followed, can be found in the Material Safety Data Sheet reference:- 50/1A.

Users are advised to wear face masks, goggles, gloves and overalls when handling, mixing and applying **RoadMaster** products.