

## RonaRoad Manhole Concrete

Rapid setting bedding concrete for manholes and ironwork



### FEATURES

- rapid strength gain Concrete for manhole bedding
- ready for vehicle traffic after 1 hour
- pre-packed, mix with water and apply
- meets highways standards

### Description

RonaRoad Manhole Concrete is a pre-packed ready to use concrete requiring only the addition of a specified quantity of water to achieve a compressive strength in excess of the Highways Authority Specification. This property makes it ideal as a bedding concrete for the installation of street ironwork.

The unique formulation of RonaRoad Manhole Concrete enables it to be used down to temperatures as low as  $-10^{\circ}\text{C}$ .

RonaRoad Manhole Concrete is designed to be used at 25mm thick and above.

### Performance Data @ 20 °C

#### Compressive Strength

1 hour	20N/mm <sup>2</sup>
2 hours	24N/mm <sup>2</sup>
24 hours	33N/mm <sup>2</sup>
7 days	45N/mm <sup>2</sup>
28 days	57N/mm <sup>2</sup>

#### Working Time

10 minutes

#### Setting Time

13 minutes

### The Department of Transport

#### HD 27/04 Design Manual for Roads and Bridges

The Highways Authority Specification Design Manual for Roads and Bridges, Volume 7, Section 2, Part 4 HD 27/04 clause 3.11 states that “Concretes for bedding iron work such as manhole cover frames during repairs may be trafficked when the strength is expected to be 20 N/mm<sup>2</sup>. For rapid construction, this strength should be achieved within 2 hours”.

# RonaRoad Manhole Concrete

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### Benefits

- Open to traffic in 1 hour
- Ultra rapid strength gain
- Suitable for rapid raising and bedding of manhole covers and ironwork
- Meets compressive strength requirements of Highways Standards HD 27/04 clause 3.11
- Simple add water formulation
- Also works below freezing and down to  $-10^{\circ}\text{C}$

### Instructions for Use

#### Preparation

All surfaces should be clean and free from grease, dirt and any friable or deleterious material. Damp the surface with clean water and remove excess.

#### Mixing

Working close to the area of application add sufficient water to achieve the required consistency. Do not exceed 2.25 litres of water per 25kg bag. Mix by forced action mixer until a uniform consistency has been obtained.

#### Placing

Immediately place the mixed concrete on to the surface, noting the restricted working life. Bed brickwork or reposition ironwork.

#### Curing/Strength Gain

Allow to develop strength and traffic. Curing is not necessary unless temperatures are particularly high, or low.

#### Cleaning

Clean all tools immediately with water.

### Packaging

RonaRoad Manhole Concrete is supplied in 25kg sacks.

### Yield and Coverage

Each 25kg bag of RonaRoad Manhole Concrete has a yield of approximately 10 litres. 1 pack of RonaRoad Manhole Concrete will cover approximately  $0.2\text{m}^2$  @ 50mm.

### Shelf Life and Storage

RonaRoad Manhole Concrete should be stored unopened between  $5^{\circ}\text{C}$  and  $25^{\circ}\text{C}$  in dry warehouse conditions and out of direct sunlight. In these conditions shelf life is approximately 6 months.

### Health and Safety

RonaRoad Manhole Concrete is non-hazardous although protective clothing such as goggles, overalls and gloves is recommended to prevent any effect from prolonged skin contact, inhalation or ingestion. In the event of skin contact, wash

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### Health and Safety (continued)

with soap and water. Seek medical advice if irritation or pain occurs. In the event of eye contact, irrigate with plenty of clean water and seek immediate medical advice. In the event of ingestion, do not induce vomiting. Seek immediate medical advice.

### Site Attendance

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When on site Ronacrete representatives are able, if asked, to give a general indication of the correct method of installing a Ronacrete product. It is important to bear in mind that Ronacrete Ltd is a manufacturer and not an application contractor and it is therefore the responsibility of the contractor and his employer to ensure he is aware of and implements the correct practices and procedures to ensure the correct installation of the product and that liability for its correct installation lies with the contractor and not with Ronacrete Ltd.

The information detailed in this leaflet is liable to modification from time to time in the light of experience and of normal product application, and before using, customers are advised to check with Ronacrete Ltd, quoting the reference number, that they possess the latest issue. Any person or company using the product without first making further enquiries as to the suitability of the product for the intended use does so at his own risk, and Ronacrete Ltd can accept no responsibility for the performance of the product, or for any loss or damage arising out of such use.