

RonaRoad Manhole Mortar

Rapid Setting Levelling Mortar for manholes and ironwork

FEATURES

- ✓ Rapid strength gain mortar for manhole bedding
- ✓ Ready for vehicle traffic after 1 hour
- ✓ prepacked, mix with water and apply
- ✓ meets highways standards

Description

RonaRoad Manhole Mortar is a pre-packed ready to use mortar 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 mortar for the installation of street ironwork.

The unique formulation of RonaRoad Manhole Mortar enables it to be used down to temperatures as low as -10°C.

RonaRoad Manhole Mortar is designed to be used between 10mm and 75mm; above this thickness it can be bulked out by the addition of 30% clean 10–5mm Pea Shingle. The addition of the aggregate may reduce the strength gain.

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°C

Application Instructions

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 2.7 litres of water per 25kg bag. Mix by hand or in a forced action mixer until a uniform mortar has been obtained. If adding pea shingle, water content may be increased to 3.5 litres for the total mix.

Placing

Immediately place the mixed mortar 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 Mortar is supplied in 25kg sacks and has a yield of approximately 11 litres.

Estimating Guide

1 pack of RonaRoad Manhole Mortar will cover approximately 0.22m² @ 50mm.

Shelf Life and Storage

RonaRoad Manhole Mortar should be stored unopened between 5°C and 25°C in dry warehouse conditions and out of direct sunlight. In these conditions shelf life is approximately 6 months.

Health and Safety

RonaRoad Manhole Mortar 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 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

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 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/mm². For rapid construction, this strength should be achieved within 2 hours”.

Compressive Strength Development at 20 °C

Age	Compressive Strength (N/mm ²)
1 hour	30
2 hours	33
24 hours	48
7 days	64
28 days	70

Typical Laboratory Results at 20 °C

Working time	10 minutes
Setting time	13 minutes