

SITE GUIDE

MORTAR

SITE GUIDE No 11: DRY SILO MORTAR SITE REQUIREMENTS

SILO STAND

The customer shall provide a silo base with a minimum dimension of 3.2m x 3.2m for a single, for multiple silo installations the base should be designed to suit. The base must be flat, level and flush to the surrounding ground.

Construction must be specified and approved by the main contractor's structural engineer. The construction should contain reinforced concrete on well consolidated ground to accommodate a weight of 40 tonnes per silo (0.3N/ mm²) and protected from extreme adverse weather conditions, flooding and subsidence, and a safe distance away from excavations.

It is strongly recommended that in the event of a silo being positioned in an area exposed to very high winds or adjacent to a sensitive location, such as a school or rail line, the silo is bolted to the appropriately designed concrete base.

Following the silo placement, the customer shall be responsible for the stability of the silo. Tarmac shall not be responsible for any loss or damage whatsoever including but not limited to:

- a) Failure by the Hirer, its employees or agents to follow the Company's guidance in respect of site requirements, location or use of the equipment.
- b) Arising from events, circumstances or causes beyond the Company's reasonable control.
- c) Delay in delivery arising from, or in connection with, the equipment or any part thereof.
- d) Or arising from any defect in the equipment.

The silo delivery vehicle will require a minimum tipping height clearance of 8.5m. The height of silo after delivery is 7.5m. Clearance from overhead

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services, electrified or otherwise, must be considered and if in doubt advice and/or permission should be sought from the owner of electrified equipment.

There should always be unobstructed access to the silo with a surface suitable for an articulated vehicle of up to 44 tonnes and also for silo service vehicles during silo repair visits, and there will need to be no more than 5m between the tanker discharge point and the blow-in pipe on the silo during the powder delivery. Under no circumstances should the silo be moved, or its orientation changed without permission from Tarmac Building Products. Any orientation changes during silo placement will be carried out by Tarmac Building Products using specialist equipment.

ELECTRICAL POWER SUPPLY

- a) Suitable sized, steel-wire armoured cable to a panel on the concrete pad containing an RCCB to protect the trailing cable from the isolator to the mixer panel. To supply the mixer a 6mm² cable SY terminated with a 32A 230 Volt trailing socket (blue commando type).
- b) Single-phase mains power or minimum \ 15 kVA generator.
- c) The RCCB should be a Merlin-Gerin 30 mA. Part number RMG400302 (or equivalent). Installation to comply with BS7671.

WATER SUPPLY

Supply to the silo must be able to provide water at a rate of 25 litres / minute, to achieve 1 Bar constant pressure.

For example, from :

- a) mains water supply via a 25mm blue hard-wearing hose connected to stop tap (supplied by customer) located

The information given in this technical data sheet is based on our current knowledge and is intended to provide general notes on our products and their uses. Tarmac endeavour to ensure that the information given is accurate, but accept no liability for its use or its suitability for particular application because of the product being used by the third party without our supervision. Any existing intellectual property right must be observed.

- adjacent to the silo, connected to the 19mm bore clear hose (supplied by Tarmac) to the mixer unit.
- b) or a header tank (600ltrs min. capacity suggested) with its outlet at least 1m above the silo base.
 - c) or a large water bowser (1000ltrs capacity suggested), with its outlet at least 610 mm above the water inlet on the silo base.

NOTICE

Please provide five clear days' notice for when to supply silo. Full terms and conditions can be found at www.tarmac.com/terms-and-conditions.

TRAINING

A full induction is to be given by a Tarmac representative to all site personnel who will use the silo. Silo training and care video can be found at : <http://www.tarmac.com/mortar/mortar/dry-silo-mortar/>

IMPORTANT CONSIDERATIONS

- Customer to provide cable (see point 2 above)
- Merlin-Gerin RCCB recommended (see point 2c above)
- Water bowser must be totally clean before use (see point 3c above)
- Silo must not be used until site personnel have been inducted by Tarmac (see point 5 above)
- A silo can hold up to 33tonne, to maintain DSM stock and continuity of supply, we recommend ordering a re-fill before allowing the materials level to reach the silo's cone. The aim is to refill the silo with material in the cone and prior to the silo becoming fully empty.