

TEKNOSET RSM

Rapid Set Bedding Mortar

DESCRIPTION

TEKNOSET RSM is a pre-mixed Portland cement based non-shrink bedding mortar suitable for the support of road ironwork and highway furniture. The mixed mortar, when placed, will harden in approximately 10 minutes. The compressive strength gain will reach 20MPa within 2 hours allowing early opening of roads to vehicular traffic. The self-contained product only needs to be mixed with water on site and the rapid setting assists the re-bedding of manhole frames and the setting of new frame systems. The product is chloride free and can be safely used with cast iron and steel units. The mortar can be placed in sections of 15mm to 75mm in thickness. Greater thicknesses can be built up in layers. Alternatively thicker beds may be formed by the addition of up to 30% of the Teknoset RSM weight of clean dry pea shingle. No additional mixing water is required. After placement no special curing is required in moderate ambient conditions.

USES

- Re-bedding of raised manhole frames
- Bedding of frames in new roads
- Support of road furniture

Property	Value
Compressive Strength @ 20°C	2150Kg/m ³
Density	10mm – 80mm
Coefficient of Thermal Expansion	5°C – 30°C

PROCEDURE

Surface Preparation: Laitance and all loose material including dust, oil and grease should be removed in order to produce a sound substrate. The work area should be pre-wetted taking care to remove any standing water before placing the Teknoset RSM.

Mixing: To achieve the most consistent mortar mix, mechanical mixing is recommended. Thorough hand mixing is suitable but care should be taken to ensure that the mix is fully wetted out. Mechanical mixing may be carried out in a suitable vessel using a slow speed high torque drill and Mortar Stirrer. Hand mixing may be carried out using a clean spot board or wheelbarrow. Each 25kg bag of Teknoset RSM requires 2.5 to 3.0 litres of water to give a mortar consistency. Excess water should not be added. Once setting of the mortar has commenced, further mixing should not be used to re-work the mix. The mortar should be placed within approximately 10 minutes of mixing. The working time may be extended in cold ambient conditions and may be slightly shortened in hot ambient conditions. For cold weather working warm mixing water at up to 30°C may be used.

Placing: Set suitable levelling shims onto the working surface ready to receive the frame or unit. Place the mixed mortar onto the prepared surface and lower the frame or unit onto the mortar and knock down onto the preset shims to line and level. The bed thickness applied in a single application should be between 15mm to 75mm. Thicker support beds can be achieved by applying further material as soon as the lower bed has hardened sufficiently not to distort under the additional work. The placed mortar will have hardened sufficiently to carry out further work, such as haunching, within some 20 minutes depending on the surrounding ambient conditions.

Curing: No special curing is required at temperatures between 5°C and 35°C. For placing at temperatures outside this range contact the Technical Service Department.



Revision date: 23/1/23

Equipment Cleaning: Clean tools immediately using water.

PACKAGING & COVERAGE

Pack Size: 25kg.

Yield: A 25kg bag will yield 11.5 litres of mortar.

STORAGE & SHELF LIFE

Teknoset RSM should be kept in dry conditions at a temperature of 5°C to 45°C. Storage at higher temperatures and high humidity may reduce the shelf life.

HEALTH & SAFETY

Teknoset RSM is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice.



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