



RMP 30 (Fast Hardening)

Non-Shrinking Fibre Mortar for Roads and Industrial floors

Description

Spartan RMP 30 is a ready-to use mortar (just add water and mixed) composing with selected aggregates, special cement and admixtures.

Uses

- Sealing of sight holes, manhole cover, trapdoor frame, telecom hatches, street furniture, signposts.
- Repair to industrial flooring, concrete walkways and roads, pot-holes, undercuts,
- Bed-face for high-traffic paving and road surfaces.
- Bridge bearing calking
- Sealing road joints

Characteristics

- Fast hardening
- High mechanical strength
- Excellent resistance to sea water, sulphated waters,
- De-icing salt and oil.
- Easy application, even at low temperatures.

Specifications

- Grey ready-to-wet powder.
- Hydraulic binder active ingredients.
- Chloride and metal particle free.
- Particle size: 0 - 4mm
- Powder density: 1.4

Setting Time

Temperature	30°C	20°C	5°C
Initial setting	30 mins	40 mins	2 hours

Repair time

Temperature	30°C	20°C	5°C
Repair	90 mins	2 hours	4 - 5 hours

Mechanical Strength (MPa)

Period	2 - 3 hours	6 hours	24 hours	7 days	28 days
Compressive	20	35	40	45	50
Tensile	5	5.5	6	6.5	7.5

Instructions

- For use on rigid substrates only (cement- stabilised gravel, concrete). Substrates must be clean, sound and free of any loose flaking parts.
- If necessary, the surface should be smoothed prior to application.
- Dampen as required.

Mortar preparation

- The mortar is obtained by mixing SPARTAN RMP 30 with portable water.
- Machine or hand-mix to a plastic consistency.
- Mixing time : 3 minutes minimum.
- Workable life after mixing : 20 minutes at 20°C

Micro-concrete preparation

- For thickness over 30mm, SPARTAN RMP 30 should be used as a micro-concrete.
- Micro-concrete is made up by adding 10 - 20 litres of clean, damp 3/8 or 5/10 aggregate for each 25kg bag of SPARTAN RMP30.

Sealing a sight hole

- Clear out using sharp vertical cuts.
- Clear down to the capping or to a solid rim.
- Remove dust and thoroughly rinse the cleared-out area. Ensure that the surface is left damp.
- Remove any remaining dirt and loose particles.
- Remove residual water.
- Insert pre-prepared formwork.
- Lay bed face, position frame.
- Block by filling ring with SPARTAN RMP 30. Press down firmly.
- Level off SPARTAN RMP 30 at road level.
- Smooth grain of bearing surface. Float.



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Repairs to industrial floors and concrete walkways

- A preliminary study must be carried out on cracked substrates.
- Mark the boundaries of the area to be repaired, preferably by sawing.
- Remove damaged material to leave a thickness of 2 cm with clean ridges. Loose particles must be raked out and all traces of grease and oil removed.
- Dust and rinse thoroughly.
- Fill the cleared area with water and soak for several hours.
- Remove residual water.
- Make up a micro-concrete with SPARTAN RMP 30
- Apply the micro - concrete and float with a trowel.

Dosage / Yield

Pure mortar

RMP 30	25kg
Water	3.3 litres
Workable volume	13 litres

Micro - concrete

RMP 30	1 bag of 25Kg	
3/8 Aggregate	10 litres	20 litres
Water	4.3 litres	5.3 litres
Workable volume	20 litres	25 litres

Packaging

25kg long-storage bag.

Storage

1 year from date of manufacture if stored in unopened original packing in dry, frost - free conditions.

Warranty

Manufacturer's liability.

Technical Assistance

Further technical information on request.

Recommendations

- Temperature range for use : 0°C to 35°C
- Do not apply to a frozen or thawing substrate. In hot temperatures SPARTAN RMP 30 should be mixed with cold water.
- Surfaces must be protected from air with SPARTAN RMP 30 once setting starts.
- Do not mix with other hydraulic binders.
- Sand and admixtures must not be added.
- Aggregates used for making up micro- concrete must be frost- resistant (frost index <=10)