

Quickmast PRM

Rapid setting polyester resin mortar



Description

Quickmast PRM is a two-component, fast cure and high strength polyester resin mortar, that once cured produces a stiff supporting mortar, designed primarily for use in the rapid installation and reinstatement of manhole covers and frames in heavily trafficked areas.

Applications

Installation and reinstatement of manhole frames, gully grates, kerbs and street furniture in heavily trafficked areas.

Advantages

- ▲ Fast set.
- ▲ Exceptional physical properties and mechanical strength.
- ▲ High bond strength to concrete substrates.
- ▲ Good chemical resistance
- ▲ High ultimate and early strength
- ▲ Non-shrink mortar.

Method of Use

Surface Preparation

The surface must be structurally sound, free from oil, grease and other forms of contamination. Concrete surface should be dry and suitably prepared either by scabbling or grit blasting to remove any undesired surfaces.

Steel surfaces should be clean, free from oil, grease and other forms of contamination.

Mixing

Quickmast PRM comprises of two components, a resin base and filler which are pre-weighed to the correct proportions. Under no circumstances should part mixing be carried out.

Technical Properties:

Compressive strength:	> 65 MPa @ 1 hr
BS 6319, part 2:1983	> 75 MPa @ 2 hr
Tensile strength:	> 8.5 MPa @ 1 hr
BS 6319, part 7:1985	> 9.0 MPa @ 2 hr
Flexural strength:	> 22 MPa @ 1 hr
EN 13892-2	> 24 MPa @ 2 hr
Bond strength over C25/30 concrete:	≥ 2 MPa @ 1 day
ASTM D4541	(concrete failure)
Workability:	5 - 15 min @ 25°C
Set time:	20 min @ 25°C

Ensure that the bottom and sides of resin pack are thoroughly scraped; transfer the entire content of the resin into a plastic container and start adding the filler slowly while mixing for approximately 3 minutes or until a uniform consistency is obtained, to ensure proper mixing, a forced action mixer, drill fitted with suitable paddle or vigorous hand mixing with an appropriate tool should be used.

Application

Quickmast PRM should be applied over the required area once mixed. Place the mortar well into position using a suitable float, minimum thickness of 5mm and a maximum of 50 mm should be maintained.

Place the manhole frame onto the bedding mortar carefully to prevent voids in the bedding material under the frame, ensure that the frame is fully supported and not overhanging the mortar at any point. Place the backfill material once the bedding mortar has reached its initial set.

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Working Conditions

Quickmast PRM should not be applied at temperatures below 5°C.

Working Time

Quickmast PRM has a working time of approximately 5 - 15 minutes at 25°C.

Cleaning

All tools should be cleaned immediately after finishing by DCP Solvent. Hardened materials can be cleaned mechanically.

Packaging

Quickmast PRM is available in 25 kg set comprising resin base and filler component.

Specified Thickness Range

Quickmast PRM can be applied in a single layer at thicknesses between 5 - 50 mm.

Yield

Approximately 12.0 litres for each 25 kg set.

Storage

Protect from frost and store under dry warehouse conditions at temperatures between 5°C and 25°C.

Shelf Life

Quickmast PRM has a shelf life of 9 months from date of manufacture if stored at temperatures between 5 - 25°C in unopened, undamaged, sealed containers and stored under good conditions.

If these conditions are exceeded, contact DCP Technical Department for advice.

Cautions

Health and Safety

Consult the appropriate Material Safety Data Sheet prior to using Quickmast PRM.

Fire

Quickmast PRM and DCP solvent are flammable and should be kept in a cool place.

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Don Construction Products Qatar W.L.L
New Industrial Area, Street 21,
Zone 81, bldg. # 9
Doha - Qatar

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