

DATA Sheet



FASTCAST

USES

FASTCAST is a rapid curing, high strength pourable concrete, specifically designed for bedding of covers and frames, i.e. manholes, hydrants, etc.

ADVANTAGES

- USER FRIENDLY:** Materials are pre-packaged and only required mixing with clean water on-site.
- LOW SHRINKAGE:** Maintains high bond strength to substrate.
- RAPID CURING:** Sets in 30 minutes at 20°C, yielding a durable, high strength mortar with a compressive strength in excess of 30N/mm² at 4 hours.
- COMPATIBLE:** Physical properties of cured materials similar to base concrete.
- INNOVATIVE:** Incorporates the latest proven Portland cement chemistry and microsilica technology.
- SAFE:** Non-toxic when cured.

PRODUCT DESCRIPTION

FASTCAST is a Portland cement based compound, modified with microsilica, which exhibits unique hydraulic properties to produce a rapid curing mortar with enhanced physical properties.

To prevent segregation, the product is supplied as a two component system consisting of a carefully graded 6mm aggregate and a bag of cementitious powder, which only require the addition of clean water to give a rapid curing, yet durable high strength mortar. It is ideally suited for bedding of manhole frames, street furniture, kerbs, drainage channels, pipes etc.

Please consult our Technical Department for advice on suitable products for use in repair situations.

TECHNICAL DATA (TYPICAL)

Mixed Colour:	Concrete Grey.
Mixed Density:	2400kg/m ³ .
Min. Application Thickness:	5mm.
Max. Application Thickness:	200mm.
Min. Application Temperature:	5°C.
Max. Application Temperature:	25°C.
Working Life:	25 minutes at 20°C.

MECHANICAL CHARACTERISTICS (TYPICAL)

Compressive Strength: BS 4551 Tested at 20°C:

Age	N/mm ²
2 hours	10-20
4 hours	25-35
1 day	50-55
7 days	70+
28 days	70+

APPLICATION DATA

Application Guide available on request.

PREPARATION

Mechanically remove all damaged concrete back to a sound core. On cutting back, feather edges must be avoided. The perimeter of the area should be stepped to a depth of 10mm by means of saw, disc cutting or preferably using a power chisel.

The areas treated must be free from all unsound material, i.e. dust, oil, grease, corrosion by-products and organic growth. Smooth surfaces should be roughened, all loose material and surface laitance removed and reinforcement cleaned to bright steel preferably using wet grit or water blasting techniques or equivalent approved methods. The strength of the concrete sub-base should be a minimum of 20N/mm².

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated without any standing water.

MIXING

FASTCAST should be mechanically mixed ideally using a forced action pan mixer, or in a clean drum using a slow speed drill and paddle. Care must be taken when using a normal concrete mixer to ensure complete mixing has been achieved.

For normal application, use 4.0-4.4 litres of clean water per 50kg composite pack depending upon desired consistency. No attempt should be made to split packs and only full bags should be mixed at a time.

PLACING

For normal applications, **FASTCAST** should be compacted using a placing technique to remove entrapped air, in layers not exceeding 200mm deep in pockets. If necessary, support with shuttering to allow for compaction if working to reveals, etc.

CURING

Normal concreting procedures should be strictly adhered to. It is important that the surface of the mortar is protected from strong sunlight and drying winds with **FLEXCRETE CURING MEMBRANE**, polythene sheeting, damp hessian or similar.

CLEANING

All tools should be cleaned with water immediately after use.

SHELF LIFE

12 months in dry, frost free conditions with unopened containers at 20°C.

PACKAGING AND COVERAGE

Pack Size: 50kg composite pack.
Yield: One 50kg pack yields 23litres of mortar.
Coverage: 2.4kg/mm/m².
i.e. 1m² at 10mm thickness requires 24kg.

SAFETY DATA

Safety Data Sheet available on request.

12/06



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