

TECHNICAL INFORMATION

TOPFLOW CONCRETE - COMPOSITE METAL DECKING

Topflow proprietary self compacting concrete offers a cost-effective and efficient way to place concrete over profiled steel composite metal decking systems. It is available either as a plain self-compacting concrete in applications incorporating conventional reinforcement, or alternatively a specially formulated mix containing high-performance steel and micro polypropylene fibres as a replacement for crack-control mesh.

BENEFITS

- Highly fluid concrete consolidates easily around the deck profile
- Rapid, flexible, easy installation allows large surface to be poured quickly
- No vibration or power float finishing required
- High quality surface finish easily achievable
- Reduced labour requirements over traditional gang sizes

BENEFITS OF TOPFLOW

- Suitable for use with either Topflow Horizontal or plain 10mm Topflow concrete
- Placing Topflow mix and fibre reinforcement within the same operation offers significant productivity and cost benefits
- Different fire rating options are available - 60, 90 and 120 minutes
- No need to order, store and place steel mesh reinforcement on site
- Significantly reduces health and safety issues by eliminating mesh on site
- Topflow mix has been specifically developed and adjusted to allow the use of appropriate dosage of steel and polypropylene fibres by Tarmac

- Reduces the risk of plastic settlement and shrinkage cracking
- Increases impact, abrasion and shatter resistance of the concrete
- Increases the ultimate residual strength of the concrete
- Enhances the ultimate durability of the concrete
- Little or no impact on surface finish quality; floor finishes can be applied as normal
- Excellent pumping characteristics allow high level floors to be poured

SPECIFICATION NOTES

Concrete specification as per original Topflow product selected for use.

Flow range - 650mm-750mm flow.

Steel fibres comply with EN 14889-1:2006.

Polypropylene fibres comply with EN 14889-1:2006.

Despite Topflow's highly fluid nature, no additional propping of the deck is required. The concrete 'live load' is considered the same as for a conventional mix.

Some additional sealing of the deck may be required to prevent excessive grout loss.

TECHNICAL/SPECIFICATION SERVICES

Topflow proprietary self compacting concrete can be used on horizontally installed composite steel profiled floor decking systems as the high speed cost effective construction alternative to conventional concrete.

Topflow containing steel and polypropylene fibres in conjunction with our fibre partner, Propex Concrete Systems, is approved for use over the following deck types:

- Tata/Corus Comflor (CF) 51, 60 and 80. Design software available for download at www.comflor-uk.com
- CMF (Studwelders & Nother Steel Decking) MetFloor (MF) 55, 60 & 80. Design software available for download at www.cmf.uk.com

If in doubt, Tarmac's specification team and product specialists will be able to advise and inform you of your specification options.

For more details visit
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