

### Health and Safety

Contact with concrete may cause irritation, dermatitis or severe alkali burns. There is a serious risk of damage to the eyes. Wear suitable waterproof protective clothing, gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. After contact with skin, wash immediately with plenty of clean water. Keep out of reach of children. Contains Chromium (VI), may cause allergic reaction. For a detailed datasheet please visit the health and safety section of our website [www.cemex.co.uk](http://www.cemex.co.uk)

### Sustainability commitment

As a company, CEMEX UK embraces the challenges of sustainable development, striving to be socially, economically and environmentally responsible in everything we do to safeguard the needs of future generations. CEMEX Readymix use efficient automated batching systems reducing waste water discharge. Other similar systems are in place for stone washing and aggregate reclaim and finally during production operations water is extracted at many of the plants.

### CEMEX

CEMEX is the world's leading supplier of readymix concrete and has an international reputation for innovative concrete solutions. CEMEX Readymix produces a full range of mixes designed for specific applications in the commercial, industrial and civil sectors. These include fibre concretes and Evolution™, a range of self-compacting concretes with free-flowing and self levelling characteristics. The company's extensive product range includes proven water barriers such as Supercast and Proofex.

### Propex

Propex is the worldwide leader in fibre reinforcement solutions. Propex set the standard for performance, value and reliability in concrete reinforcement fibres. They offer a complete line of fibre solutions including Fibermesh micro synthetic fibres, Novomesh blend fibres, Enduro macro synthetic fibre and Novocon steel fibres.



## FIBRE REINFORCED CONCRETE FOR COMPOSITE METAL DECKING

**In an increasingly competitive environment and with tighter margins, speed and efficiency are key facets for achieving successful projects, in conjunction with providing a solution to satisfy the highest demands of the client.**

Cemex, in conjunction with Propex have developed Advanced Decking – a fibre reinforced concrete for use on composite metal decking systems, eliminating the need for steel mesh. This delivers a significant reduction in reinforcement costs as well as faster and easier placement.



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Cemex and Propex are market leading global companies specialising in the production of ready mixed concrete and fibre reinforced concrete solutions. Together they have combined their expertise to create Advanced Decking.

Advanced Decking is a tested and approved fibre reinforced concrete mix designed for composite metal decking systems. Advanced Decking eliminates the requirement for traditional steel mesh reinforcement resulting in a faster, easier and more cost effective solution for your projects.

The Advanced Decking system uses a unique combination of high performance steel fibres and polypropylene micro synthetic fibres to achieve a fully three dimensionally reinforced concrete slab.

Advanced Decking is manufactured by CEMEX in our quality controlled network of ready-mix concrete plants and is available throughout the UK. The product is delivered ready-mixed and requires no special handling on site.

### Applications

Advanced Decking is approved for use on the following composite metal decking systems

- » Tata ComFlor Product Range
- » CMF Metfloor Product range

### Benefits of using Advanced Decking

Advanced Decking eliminates the need for steel mesh resulting in the following benefits

- » Significant reduction in programme - concrete and reinforcement is placed in one application
- » Concrete is supplied with the exact amount of reinforcement that is required (no wastage)
- » Removes the need for hoisting mesh
- » Reduces the need to cut, place and fix steel mesh on site
- » Reduction in labour costs
- » Eliminates the need to store and manage mesh on site
- » Can show an overall cost saving compared to traditionally placed concrete
- » Independently verified and approved by the Steel Construction Institute
- » Fire ratings up to and including 120 minutes
- » Bespoke software available from Tata and CMF to enable engineers to design Advanced Decking solutions
- » Eliminates tripping hazards associated with steel reinforcing mesh

### Deck types

Tata ComFlor	CMF Metfloor
ComFlor 51	Metfloor 55
ComFlor 60	Metfloor 60
ComFlor 80	Metfloor 80

### Fire rating details

Fire Rating	Product
60 minutes	Advanced Decking 25
90	Advanced Decking 30
120	Advanced Decking 35

### Features

- » Independent testing proves that the system provides equivalent or superior performance to traditional welded wire mesh solutions
- » The inclusion of steel fibres in advanced decking provides load bearing capabilities, increased toughness and long term crack control
- » Proven to reduce plastic shrinkage and settlement cracking
- » Superior 3 dimensional reinforcement increases impact, shatter and abrasion resistance
- » Quality assured concrete reinforcement system

1. Steel fibre reinforcement
2. Polypropylene fibre reinforcement
3. Composite metal decking
4. Advanced Decking concrete placement

