

High Performance Concrete



Product Description

Cemfloor HPC is a specially formulated high performance concrete that can be used to create stronger and more durable floor slabs with less shrinkage and increased bay sizes to minimise joints compared to those constructed with conventional concrete. Higher compressive and flexural strengths are achieved enabling a reduction in slab thickness providing an improved environmental profile. High quality finishes can be achieved without power floating with the option to polish to enhance aesthetics.

Applications

- Floor Slabs
- Residential dwelling oversite/slabs
- Structural toppings

- Domestic floors
- Commercial slabs such as composite deck construction (rib metal decking)
- Industrial floor slabs
- Mezzanine and office areas within industrial units

Characteristics

- Cemfloor HPC enables the rapid and effortless fabrication of slabs and floors
- The surface finish is of a high quality and durability
- Eliminates the need for power floating on site
- Floor finish tolerance to BS 8204 1 SR2 SPECIFICATION
- Maintenance of fluidity Three hours
- Minimum thickness 65mm
- Compressive strength at 28 days -Minimum 35N/mm²
- Flexural Strength at 28 Days -Minimum 6N/mm²
- Drying Shrinkage Less than 400
 micron/metre
- Reduced Risk of Cracking

Application

To ensure a high quality slab it is recommended that application is carried out by a specialist contractor who has been approved to place Cemfloor HPC. The freshly poured screed will need to be levelled using a dappling bar, ensuring to dapple the surface in two passes at 90°.



Curing

After placing the floor should not be subjected to severe draughts, direct sunlight or heating for the first 24-48 hours. The room in which the HPC has been placed should therefore be sealed during this time. The room should be ventilated after 24-48 hours by opening windows and doors during the day to aid the drying process.

Floor Coverings

Cemfloor HPC is compatible with all floor coverings, and all cementitious adhesives including fast track systems. The slabs moisture content should be measured before placing floor coverings to ensure that it is adequately dried. Cemfloor HPC will not require any sanding to remove laitance but it is recommended to lightly abrade the surface to clean and remove any building residue and to improve the adhesion of the flooring adhesive to the hardened concrete.

Compressive Strength	Minimum 35N/mm ²
Flexural Strength	Minimum 6N/mm ²
Minimum Thickness	Bonded: 65mm Unbonded: 65mm Floating: Domestic: 65mm Commercial: 75mm
Shrinkage (28 Days)	<0.05%
Slump Flow	650 – 700mm
Fresh Density	2250 – 2350 kg/m ³
Open to Light Foot Traffic	24-48 Hours



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