

**Specifications for Cement Concrete Industrial Heavy duty Tiles of size (Sizes: 250x250x24mm, 300x300x28mm, 400x400x31mm, 500x500x32mm)**

Supply of High Strength and high wear resistant Cement Concrete Industrial Heavy duty Tiles with ground finish with

- special grade wear resistant aluminum oxide or silicon carbide grains in wearing layer.
- Colours specified by the architects, using UV resistant color pigments from Lanxess.

Sr.	Parameters	Minimum Requirements
1.	Percentage Water Absorption	Not over 6%
2.	Wet transverse strength	Not less than 4.5N/mm <sup>2</sup>
3.	Average wear in Thickness- Abrasion	Average wear not more than 1.5mm
4.	Tolerance in Size (length + breadth)	± 1mm
5.	Thickness of wearing layer	Not less than 8mm
6.	Variation in Thickness of tiles	Variation not to exceed 3mm
7.	Flatness of tile surface	Concavity / convexity not to exceed 1mm
8.	Colours	UV Light resistant fast colours from Lanxess only to be used.

- The manufacturing company must be an ISO 9001:2015 certified Company or should have equivalent quality management systems in place to ensure quality product.
- The Tiles must meet the sustainability criteria and should be certified as a green product by CII.
- The Heavy Duty tiles must confirm to IS 1237:1980.
- The Tiles must be manufactured on automatic machines with mechanical vibration and rubberized moulds.
- The Tiles must be ground on Linear Grinding Machine.
- The Tiles will be made using wear resistant materials in the face mix as specified by the architects.
- The Tiles must be cured in a controlled environment to ensure efflorescence free material.
- The manufacturer must have in house testing laboratory to carry out all testing including Compressive strength testing, Water absorption, abrasion resistance etc.