



M.M. Balasubramaniam
Founder
Yuvraj group of companies



Providing Excellence through Innovation

Your source for *Hard Working, Long Lasting & Good Looking* concrete flooring solutions.





LASER SCREED FLOORS - FM1/FM2, DM1/DM2

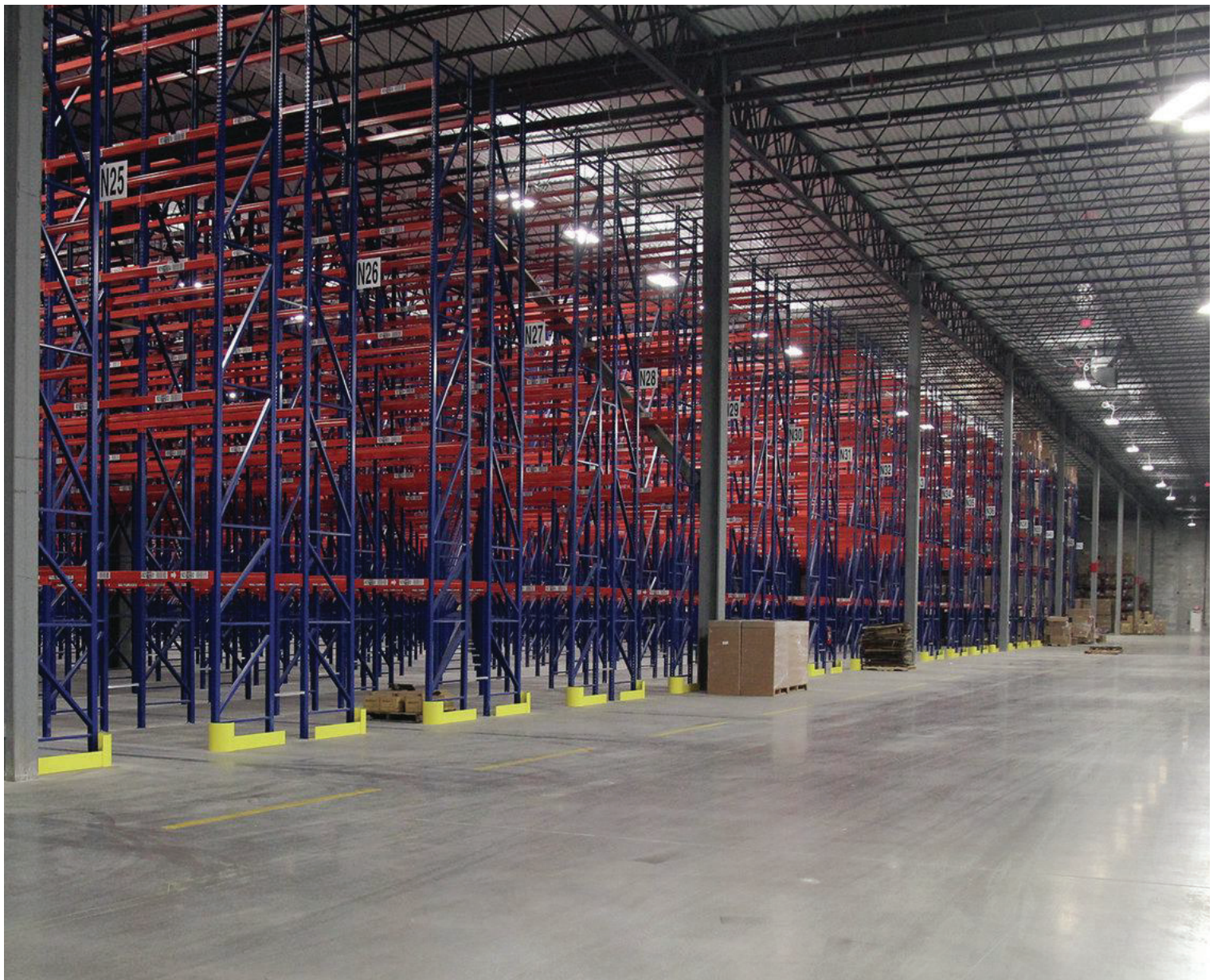
Laser screed floors refer to concrete floors that are leveled and compacted using a laser-guided screeding machine. These machines use laser technology to ensure that the concrete is laid flat and to the exact specifications required for the project. Laser screed machines greatly reduce the time required for constructing large industrial floors. Large pours of concrete can be laid in wide panels without compromise in levels and with a reduced labour force.

Advantages

- Precise flatness with laser levelling
- Large panels with fewer joints
- Faster construction
- Reduced manual effort
- Lower costs with optimized design
- Reduced maintenance costs with better floors

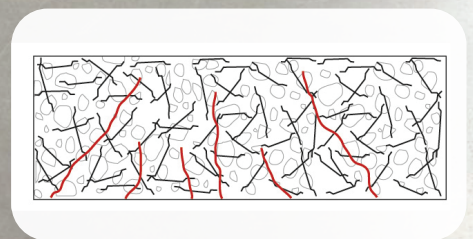
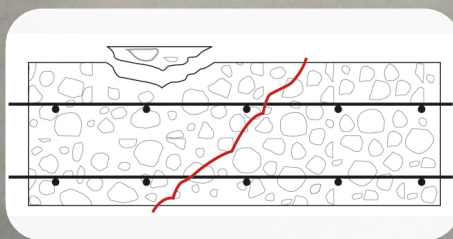
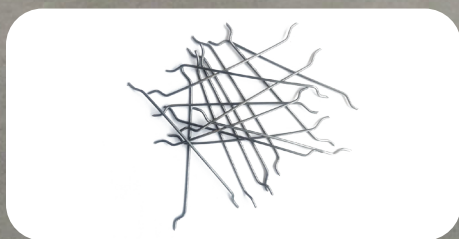
Applications Areas

- Industries & Manufacturing facilities
- Warehouses & Distribution centres
- Retail & Big box stores
- Cold store warehouses
- Exhibition & Convention centres
- Data centres
- External pavements, Container yards & Roads



STEEL FIBER REINFORCED CONCRETE FLOORS

Steel fiber reinforced concrete (SFRC) floors are concrete floors that have steel fibers mixed into the concrete to enhance its properties. These fibers, typically made of steel, are distributed uniformly throughout the concrete mixture to provide additional strength, durability, and crack resistance.



Advantages

- 3D Reinforcement with crack control
- Exceptional abrasion & impact resistance
- Faster construction
- Lower costs with optimized design
- Reduced maintenance costs
- Increased MHE efficiency
- Sustainable & green concept



Applications Areas

- Industries & Manufacturing facilities
- Warehouses & Distribution centres
- Retail & Big box stores
- Cold store warehouses
- Exhibition & Convention centres
- Data centres
- External pavements, Container yards & Roads



POLISHED CONCRETE FLOORS

Polished concrete floors are concrete surfaces that have been mechanically ground, honed, and polished to achieve a smooth and reflective finish. This process enhances the appearance and durability of the concrete, making it a popular choice for Industrial, commercial and residential spaces.



Advantages

- Completely dust free surface
- Increases hardness by up to 40%
- High gloss finish
- Enhanced safety
- Very low maintenance costs
- Excellent stain resistance
- Sustainable & green concept



Applications Areas

- Industries & Manufacturing facilities
- Offices, Schools, Hospitals & Research facilities
- Retail & Big box stores
- Warehouses & Distribution centres
- Exhibition & Convention centres
- Data centres
- Cold store warehouses



COLOURED CONCRETE FLOORS

Coloured concrete floors are concrete surfaces that have been tinted or stained to achieve a wide range of colours, allowing for unique and customized designs. This type of flooring combines the durability and versatility of concrete with aesthetic appeal, making it suitable for various applications.



Colour Chart



Advantages

- Decorative floor in a range of colours
- High gloss or matt finish
- Exceptional abrasion & impact resistance
- Faster construction with large panel size
- Lower costs with optimized design
- Sustainable & green concept
- Excellent stain resistance



Applications Areas

- Offices, Schools, Hospitals & Research facilities
- Retail & Big box stores
- Exhibition & Convention centres
- Data centres
- Airports, railway & metro stations
- Industries & Manufacturing facilities
- Warehouses & Distribution centres

RESURFACE OLD & **WORN CONCRETE FLOORS**



- ✔ Heavy-duty industrial floor resurfacing
- ✔ 48 hr curing for full traffic
- ✔ Can be polished
- ✔ Can take industrial loads and MHE traffic
- ✔ 3mm to 40mm thick layer applied to new or existing concrete
- ✔ Can be used for floor level correction

CRACK & **JOINT REPAIR**



- ✔ Repair joints, cracks, spalling & pitting of concrete floors
- ✔ Fast curing & quick application
- ✔ Can take industrial loads & MHE traffic on curing
- ✔ Strong & durable solutions for long term performance

EPOXY & **SPECIALITY COATINGS**

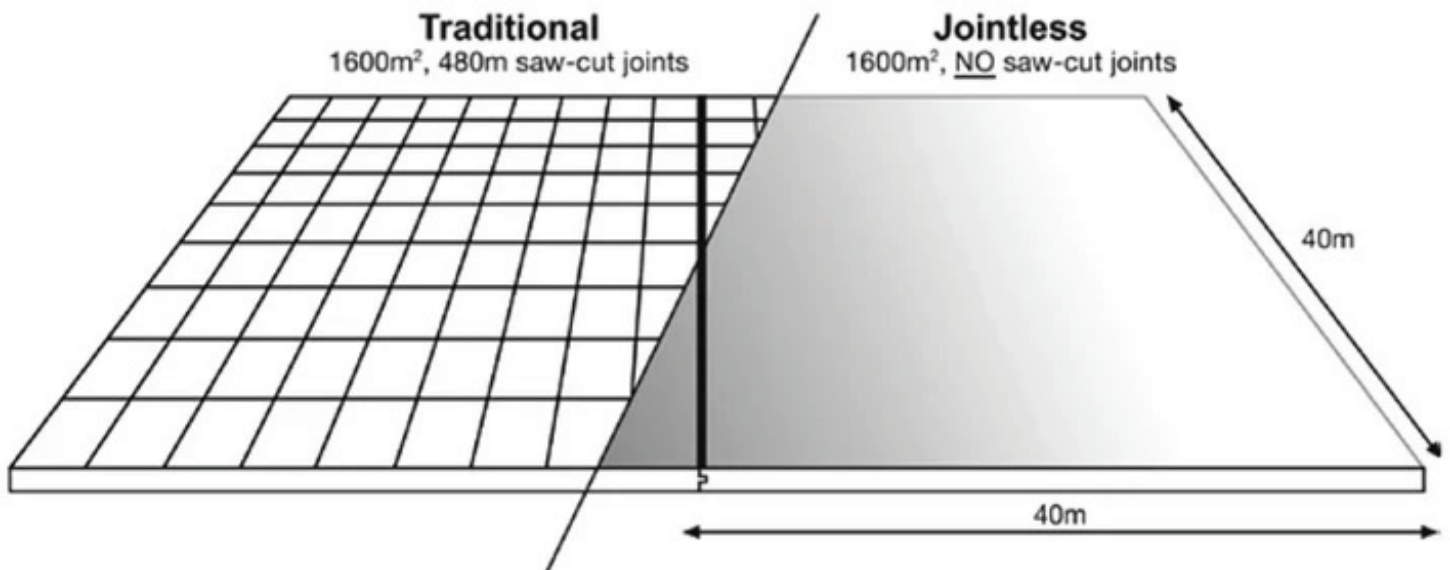


- ✔ Toppings for multiple industrial & commercial applications
- ✔ Great aesthetics & easy to maintain
- ✔ Can take industrial loads & MHE traffic

LASER SCREED FLOORS - TR34 STANDARDS

FLOOR CLASS	FLOOR CLASSIFICATION FOR FREE MOVEMENT	PROPERTY E LEVELNESS	PROPERTY F FLATNESS
FM1	Where very high standard of flatness and levelness are required. Reach trucks operating at above 13m without side-shift	4.5	1.8
FM2	Reach trucks operating at 8 to 13m without side shift	6.5	2.0
FM3	Retail floors to take directly applied finishes Retail trucks operating at up to 8m without side-shift Retail trucks operating at up to 13m without side- shift	8.0	2.2
FM4	Retail floors to take applied screeds. Workshops and manufacturing facilities where MHE lift heights are restricted to 4m	10.0	2.4

SFRC FLOORS - POSSIBILITIES



SAW-CUT FLOORS

A saw cut floor has contraction joints formed by saw cuts, typically on a grid of around 5 x 5 meters. These joints help control cracking and are necessary for large pours of concrete. Saw-cut floors require a stable sub-base to ensure proper support and long-term durability

- Cost-efficient
- Guided cracking along saw-cuts
- Increased durability
- Low maintenance

JOINTLESS FLOORS

Jointless floors do not have saw cut joints. Instead, special joints profiles are used as expansion joints to divide the floor into large panels. Jointless floors can be constructed on a stable sub-base or be supported by foundation piles. The absence of saw cut joints results in fewer wear points, which increases the design flexibility, overall durability, and load-bearing capacity of the floor.

- High load-bearing capacity
- Low maintenance (fewer joints)
- Flexible design
- Smooth operation: safer traffic or warehouse vehicles

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