

# Pushing Boundaries in Laser Screed Flooring: Jointless Flooring Solution at Mapei India, Mathura (UP)

Zenith Flooring Services Pvt Ltd, the pioneer in the flooring industry, has delivered Jointless flooring solutions for Mapei India, a globally renowned manufacturer of high-quality chemical products for the building industry. Mapei's commitment to sustainable practices and unparalleled product quality aligns perfectly with Zenith Flooring's dedication to engineering excellence. Together, we have ventured into uncharted territories, crafting a jointless flooring system that defies conventional norms.

At the heart of this engineering marvel lies a unique approach—the use of steel fiber-reinforced concrete (SFRC). This groundbreaking technique, executed with finesse and precision, has resulted in a jointless floor spanning an impressive 3,000 square meters.

The term "jointless" signifies a pour devoid of induced or saw-cut control joints. The aspect ratio of a jointless slab has to be between 1:1 to 1:1.2, to allow uniform shrinkage as it is one single large pour (30 X 30 M). Shrinkage and restraint are minimized in the construction of a jointless floor by providing Isolation joints to keep the slab detached from restraining features; such as walls or columns.

## Also,

All construction joints are Steel Armoured for edge protection and load transfer.

A double layer of slip membrane is used to reduce the friction coefficient, including

Surface treatment with 5-step Concrete Polishing

## Salient Features of Jointless Flooring:

**Cutting-edge Laser Screed Technology:** Zenith Flooring employed state-of-the-art Laser Screed Machine S-158 C from Somero USA, aligning with global standards of FM2 from TR-34 4th Edition by The UK Concrete Society. This advanced machinery including flattening tools like bump cutters and ROT facilitated the seamless pouring of an area as vast as 900 square meters per day, ensuring both efficiency and accuracy.

**High-Quality SFRC Concrete:** The jointless flooring utilized M30 grade of SFRC Concrete with a substantial steel fiber dosage of 25 Kg/m<sup>3</sup>, guaranteeing strength and durability. The minimum slab depth of 200 mm ensures longevity, making it ideal for high-traffic areas.

**5-step Polishing Process:** The polished Concrete Floor has a glossy finish which is achieved by making use of planetary machines. Progressively fine abrasive resin bonds are used to gradually grind down surfaces to the desired degree of shine and smoothness.

This involved coarse grinding, application of a liquid densifier, fine grinding, honing, and multiple polishing stages. Each step, executed with precision, enhanced the surface's aesthetics, resulting in a flawless finish.

**Quality Assurance:** To guarantee the flooring adhered to FM-2 standards as per TR-34 4th Edition Guidelines from The UK



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Concrete Society, a comprehensive third-party floor survey was conducted. Utilizing advanced instruments like the Digital Profileograph from FACE Inc. USA, the floor's surface was meticulously examined to ensure its compliance with the highest industry benchmarks.



Mapei India's Jointless Flooring Solution in Mathura is more than just a construction project; it's a testament to innovation, precision, and quality. By pushing the boundaries of what's possible in slab-on-grade construction, Mapei India, in partnership with Zenith Flooring Services Pvt Ltd, has set a new standard for laser screed flooring solutions. As you embark on your next project, consider the legacy of excellence that Mapei India embodies, and let us be the cornerstone of your construction success.

Remember, your next flooring masterpiece begins with Zenith Flooring Services.

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