DUCON



Ultimate Performance
DUCON Strengthening

A thin layer of concrete as an alternative to demolition and reconstruction

General building approval Z-15.4-391

Properties

DUCON Strengthening offers a cost-effective and time-saving alternative to demolition and reconstruction for structural elements with insufficient load-bearing capacity. By applying concrete overlay layers with a minimum thickness of just 35 mm, the load-bearing capacity of slabs, walls, columns, or beams can be significantly increased.
This allows for construction to proceed while operations continue, with minimal downtime.

DUCON®

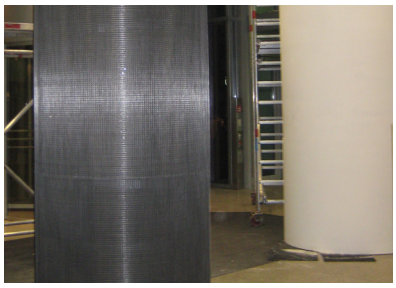
= DUctile CONcrete, UHPC with 3D micro-reinforcement (MicroMat®)
= innovative concrete technology with a large spectrum of applications
(international patents and trademarks)

Applications

Spectrum of applications: Increasing the load-bearing capacity of structural elements during repurposing, remodeling, adding stories, or in case of damaged existing buildings
Strengthening measures: Installation of a reinforcement layer in cast-in-place concrete construction by DUCON Europe or certified partners
Components: Floors, walls, columns, beams
DUCON thickness: 35–100 mm

References

Column strengthening Parktower Frankfurt, slab strengthening Volkswagen, Bridge Limburg







Benefits of DUCON Strengthening

- Increased load-bearing capacity with minimal layer thicknesses
- No demolition of the existing structure required
- Short execution time
- Seamless design
- High durability

Technical data

- Compressive strength: 100–200 N/mm²
- Flexural strength: 25–75 N/mm²
- Shear strength: 3–16 N/mm²
- Tensile strength: 9–20 N/mm²
- Thickness: from 35 mm

Applications

- Slab strengthening
- Column strengthening
- Bridge strengthening
- Beam strengthening
- Wall strengthening

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