

MBK1000 MUKAVEMET BANTI

STRUCTURE REINFORCEMENT TAPE

Historical Artifacts and Masonry Buildings

Areas of Use

✓ **HISTORICAL**

✓ **STRUCTURES**

WHAT IS THE MBK1000?

These are high-tech reinforcement tapes made of carbon fiber, designed to be placed into the joints between bricks to act as an arch, used in restoration and strengthening processes of historical monuments and masonry structures.

WHY MBK1000?

There is no corrosion problem.
It has on average 7 times higher tensile strength compared to steel.
High tensile strength is achieved even with tapes of small cross-sectional area.
Tapes with a width of 5 mm can be placed without damaging the structure's texture.
The weak masonry structure gains tensile properties. It carries not only tensile stresses but also shear stresses occurring in that section.
Since the system does not cause significant increases in stiffness and weight, additional sectional forces are prevented.
The original appearance and texture of the existing masonry structure are preserved.

TENSILE STRENGTH IS VERY HIGH

Strength bands have an average of 7 times more tensile strength than steel.

STRONGER AND LIGHTER THAN IRON

It is lighter than iron and alternative reinforcement materials.

IT IS LONG LASTING

It is a material that can serve for many years in historical monument restorations, is alkaline and water resistant, and has no oxidation or corrosion problems.

IT IS EASY TO APPLY

It can easily get into the joints thanks to its rope-like flexible structure compared to iron, wood and other hard restoration materials. There is no need to open a thick joint.

Thickness is 5 mm.

Tensile Strength is 4,300 MPa.

Tensile Stress is 1,000 kg.

Tensile Resistance is 14,960 Newton.