

A highly durable precast mold made with high-strength fibers

MAMOR Panels

Magical Advanced Mortar precast panel with ORganic fiber

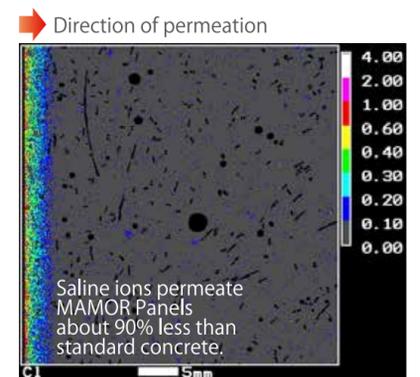
MAMOR Panels are precast concrete mortar molds reinforced with high-strength fibers. They are slim and lightweight, yet also provide extraordinary strength and durability, ensuring the long life of a concrete structure while also allowing for lower construction and lifecycle costs.

Description

- Excellent strength : Offers excellent compressive and flexural strength, giving it excellent resistance against compression during compacting.
- Excellent durability : Offers excellent resistance against causes of deterioration such as salt, freezing and thawing, neutralization, and wear.
- Sturdy along the edges : Provides strong cohesion between the panel and the concrete filling, as well as excellent durability and stress transferability in the joints.
- Excellent manufacturability : As the panels can be manufactured without the need for special materials (excluding the fibers), we can make the panels at lower material and production costs.



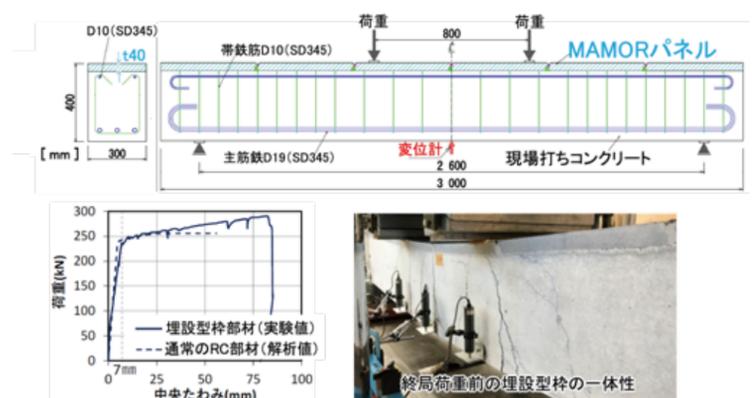
MAMOR Panel



Excellent resistance against salt permeation

Application

- Reducing labor while increasing seamlessness and speed in construction: As MAMOR Panels weigh about half as much as standard permanent concrete molds, they are easier to transport and assemble. The panels can also be seamlessly joined with other panels and rebar grids, allowing for significant reductions in construction times.



Results of stress transferability test (tensile testing) on panel and joints

About 9,300 m² of MAMOR Panels have been installed at 7 sites in the 10 years since the panels were developed.



Can be produced in any shape (images show just a few examples)



Panels being installed one at a time



Multiple panels and rebar grid combined into a single large formwork for a wall



Multiple panels, rebar grid, and external support combined into a single large formwork for a bridge column