

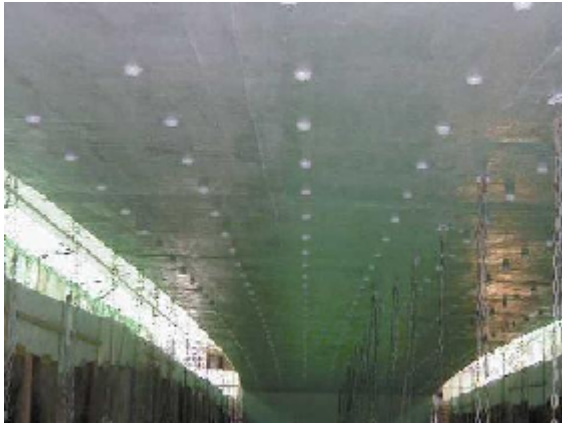
Pinning Dry construction method

[Outline]

This is the assistance and the reinforcement construction method which fix a fiber sheet physically.

Drilling the hole to the concrete which applied fiber sheets, such as carbon fiber.

It can discharge unnecessary moisture in concrete by driving in and capping a Dry lock pin.



Reinforcement under [of the elevated bridge of the railroad which applied the fiber sheet, or a road] a floor slab, and a scupper construction situation



Reinforcement and the scupper of fiber sheet applied tunnel lining

[The background of development]

In the conventional fiber sheet construction method, It generate with the moisture, seepage water, and steam on the back of a fiber sheet, there is swelled or there was an exfoliation phenomenon.

[Feature]

The effect of degassing

- Concrete is discharging and absorbing moisture according to the humidity difference of an inside and the open air (breathing).
- Steam and water drop inside concrete escape from the drill hole of a dry lock pin, a fiber sheet swells, and Prevent exfoliation phenomenon.
- It carry out a freezing-and-thawing pair, and effective and also prevent generating of an icicle.



The anchor effect

It fix a sheet physically and demonstrate the anchor effect.

[Dry lock pin]

There is no fear of the quality of the material rusting for the product made from stainless steel (SUS304).



[Difference with a construction method besides]

Simple drain hose construction method

Steam and water drop escape only from the opening at the tip of a pipe by a simple drain hose construction method, since it escapes from the drill hole of the circumference of a dry lock pin in a Pinning Dry Construction Method, the degassing effect is more efficient.

The construction method which prepares and sticks a crevice on a fiber sheet

In order that moisture and the free lime inside concrete may touch a fiber sheet end directly, it is the structure where a fiber sheet deteriorates easily.

[Construction procedure]



1. Marking

Determine the position of a pin.

2. Perforation work and Inside cleaning

Open a hole in the regular depth. Based on sq m in 4-6 numbers. After that use the manual or electric air pump, and remove powder.

3. Anchor work

Insert a dry lock pin in a hole, and drive in a pin to a predetermined position with an exclusive placing stick.

4. Capping

Fasten the washer and spring washer nut which applied the epoxy resin by the spanner and so on. It attach an epoxy resin to the inside of a cap after that, and make it adhere to building frame.

A pinning dry construction method is the Ministry of Land, Infrastructure and Transport. Registered with the new technology information service system (NETIS).

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【 Reference 】

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