



Aramid Prestressed Concrete Bridge

Technora rod was used in the post-tensioned and pre-tensioned parts of the bridge to confirm the effectiveness of continuous fibers reinforcing materials as substitutes for prestressing steel bars. This is the first case that Technora was put to practical use.



- **Owner:**
Sumitomo Construction / Teijin Ltd.
- **Location:**
Tochigi Prefecture
- **Dimensions:**
(Pretensioned section)
Bridge length: 12.5m
Overall width: 4.6m
(Post-tensioned section)
Bridge length: 25.0m
Overall width: 4.6m
- **Materials:**
(Pretensioned section)
Technora deformed $\phi (\times 8)$, $\phi 8$
(Post-tensioned section)
Technora deformed $\phi 6(\times 19)$, $\phi 6(\times 7)$
- **Application:**
(Pretensioned section)
Pretensioning of main girder
Post-tensioning of cross beams
stirrups, etc.
(Post-tensioned section)
Post-tensioning of main girder
External Cables (main girder)
- **Completed:**
(Pretensioned section)
Jul 90
(Post-tensioned section)
Feb 91
- **ACC Projects list:**
#11, #15

