

Aluminium Formwork (MIVAN Technology) Course

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[Introduction to MIVAN](#)



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MIVAN Shuttering Essentials Course

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What is MIVAN Technology?

- It was developed by MIVAN Company Ltd. from Malaysia in the 1990s for constructing mass housing projects in developing countries.
- MIVAN Company Ltd. began manufacturing these formworks, hence giving the name "MIVAN Technology"
- The system of aluminium forms (MIVAN) has been used widely in the construction of residential units and mass housing projects.
- It is fast, simple, adaptable and cost – effective. (we can achieve minimum 6-7 days slab cycle)
- This system is most suitable for Indian condition as a tailor-made aluminium formwork for cast-in-situ fully concrete structure.



Features of MIVAN Technology

1. Sheet thickness and size of panel

- Aluminium Grade – Extrusion Section A6061 T6
- The concrete wall panel is 5mm thick.
- 2000*600, 2000*300, 1200*300, 850*300 are the standard sizes of panels.
- Any other required size as per the requirement can be manufactured and delivered to the site.
- Panels reusable upto 200 - 250 times

2. Load carrying capacity

- It has 7-8 tonnes per square meter capacity.
- Due to use of aluminium as a material, it is light in weight.
- It weight around 18-24 kg per square meter.

3. Striking time (Deshuttering)

- Vertical formwork – 12 hours after concreting or when concrete attains a strength of 2 N/mm²
- Horizontal formwork – 36 hours after concreting or when concrete attains a strength of 10N/mm²

4. Cycle Time

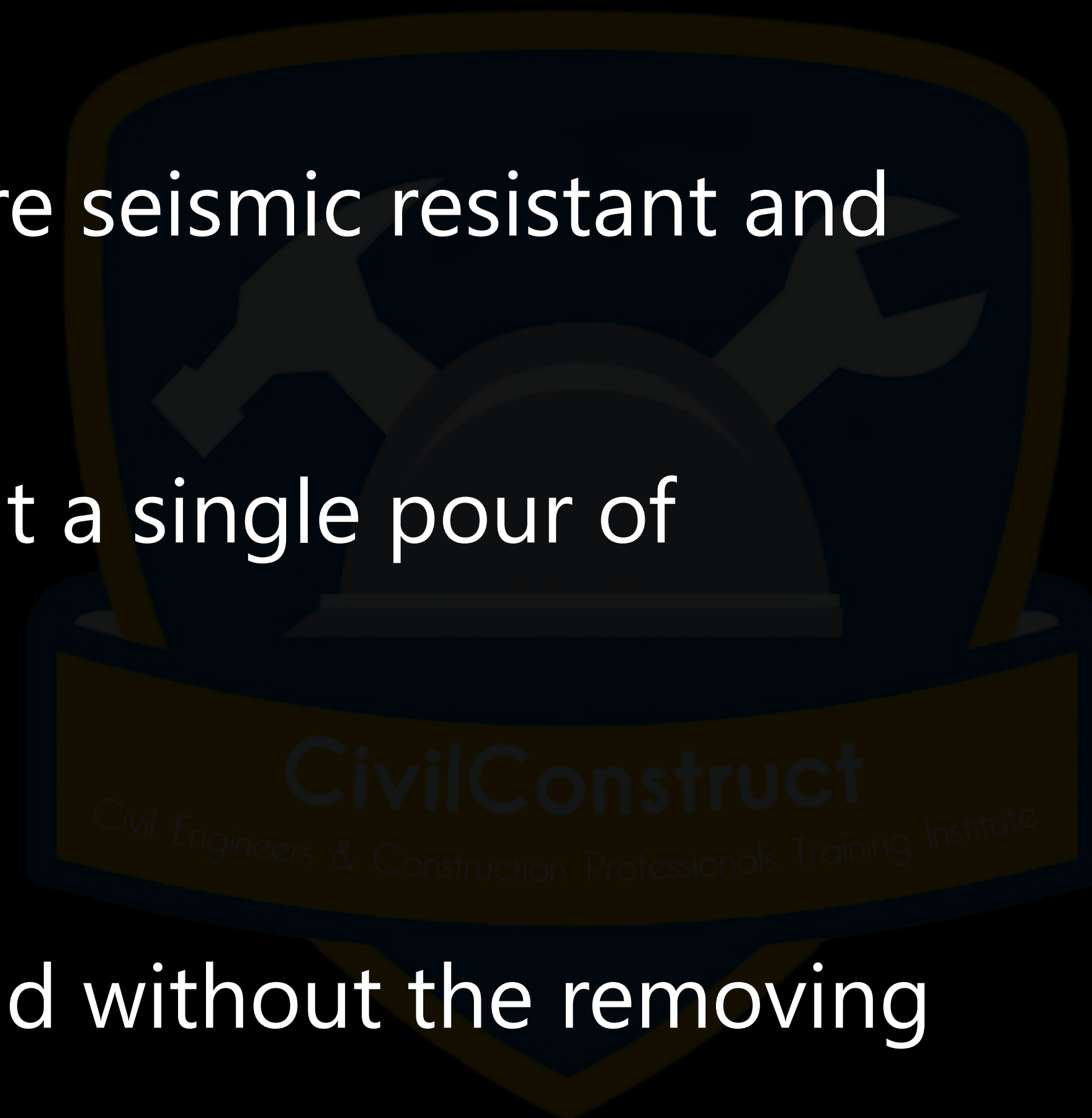
- High speed of construction can be achieved by this system that means faster completion of project (5 Days per floor)





Advantages of MIVAN formwork

- Uniformity in all components of structures.
- There is no need of block work
- Wall and slabs have smooth surface, which eliminates internal Plastering work
- This technology makes the structures more seismic resistant and durable as well
- Casting of all structural member is done at a single pour of concrete.
- Scrap value is high.
- Can be erected using unskilled labours and without the removing of props, deck panel can be removed



Disadvantages of MIVAN formwork

- Due to casting of all members, any modification is not possible to carry out.
- Due to presence of shear wall, heat of hydration is high.
- Initial cost is high (Rs. 14000-16000 /Sqm)
- Not suitable for small scale projects.
- Wall and slab may show cracks due to shrinkage

