

3D Printing Concrete - Sam Leong

Pros:

- Reduces manpower and waste while increasing productivity and geometric freedom
- Prefabricated modules assembled on-site
- Large scale (30' x 30')
 - Gantry or robotic arm system



Cons:

- Traditional concrete clogs the printer nozzle and doesn't adhere to previous layers well
- Companies often use proprietary cement mixes (more expensive)
 - Super-plasticizers to remove water
 - Fibrous materials for strength
 - Some can be cured instantly with UV light
 - Allows for horizontal printing without supports



Source: <https://all3dp.com/1/3d-concrete-printing-guide/>