

Project information

-  April, 2016
-  CC13
-  80 sq m CC13
-  Underground
-  Glencore Matagami Zinc and Lead underground Mine
-  N/A
-  Underground installation took 3 days



In April 2016, Glencore Matagami Zinc and Lead Underground Mine in Quebec were looking for a stable flooring foundation solution for their underground electrical substation. Originally, shotcrete and conventional concrete had also been considered for the 5m x 10m area.

Ultimately it was decided that CC13 would be used for the project due to the heavy weight of the equipment to be placed on the floor along with the limited underground site access and Concrete Canvas's ease of installation. The project location was at 870m vertical. Approximately 6.0km ramp distance as the Matagami Mine does possess a mine shaft.

The substrate consisted mainly of hard rock which provided an ideal base for CC13 which is supporting over 12,600lbs. Loose rocks and material were removed prior to installation to ensure there were no voids between the Concrete Canvas and the hard rock substrate. The CC13 bulk roll was dispensed by Glencore personnel using a forklift and a spreader beam bar.

The installation crew cut rolls into 10m lengths using a standard utility knife and placed each piece into the correct position. A longitudinal layup was chosen and the rolls were butt jointed together to ensure the walkway surface remained flat around the electrical substation. An extra layer of CC13 was placed directly underneath the electrical substation for added support which gave the base area a total thickness of 26mm. The underlaying layer of CC13 was hydrated prior to screwing the additional CC13 layer on top with 20mm screws at 200m intervals.

The final hydration was then completed. The whole project took approximately 3 days (preparation included). The client is looking forward to trying another electrical substation with minor preparation and installation improvements. They are also planning to try CC for ventilation wall construction in the near future.



Ground preparation



Concrete Canvas installarion



Concrete Canvas after hydration



Completed Concrete Canvas installation



Installation 6 months later