

## Project Info



07 / 01 / 19



CC5™ Bulk Rolls



500m<sup>2</sup>



Longitudinal layers



Knostrop STW, Leeds,  
UK



JN Bentley



CC5™ used to provide  
weed suppression  
below a pipeline at  
a Sludge Treatment  
Works in Leeds



Completed installation of CC5™ around Electrosteel pipeline upstands for weed suppression

The installation of a new 350mm diameter rising main at the Knostrop Sludge Treatment Works (STW) in Leeds required the addition of a weed suppression layer below the pipes. This would prevent the need for future maintenance and eliminate risks of damage to the pipes during maintenance.

Concrete Canvas® GCCM\* (CC) was specified without any need for consideration of other material options by the client, Yorkshire Water, or contractor, JN Bentley. Having previously worked with CC, the design manager for JN Bentley was aware of the material's benefits and beneficial properties for weed suppression projects, and therefore recommended the material to the client.

CC was ultimately chosen due to its quick and easy installation process, its proven weed suppression properties and the lack of damage risk to the sensitive new infrastructure, unlike alternatives such as poured or sprayed concrete.

500m<sup>2</sup> of CC5™ were installed in conjunction with the installation of the rising main between 19th January - 19th April 2019 by a team of two.

\*Geosynthetic Cementitious Composite Mat







*Site prior to works*



*Weed growth below pipeline*



*Due to pipeline length, CC installation was carried out with pipeline installation*



*Weeds removed prior to installation*



*First lengths of CC installed*



*CC end anchor trenched*





*Cutting CC to length*



*Installation of CC*



*Hydration using bowser and hosepipe*



*Corner section*



*Smaller installation section*



*CC cut to accomodate existing infrastructure*





Works were carried out by JN Bentley for Yorkshire Water

Prior to the installation of the material, large roots and sections of weeds were removed to provide a smoother substrate on which to lay the CC. The material was used between pipe upstands, generally at 5m centres. Bulk rolls of CC were hung from a spreader beam and cut to required length using hand tools and laid between upstands, anchor trenched at each end and edges secured using galvanised mild steel pegs at 1m intervals.

Once installation of a section was completed, the CC was hydrated using a bowser and hose pipe. This process was repeated for each section required.

The installation was a great success and will allow for a maintenance-free solution under the pipe track moving forward, preventing weed growth and damage to the pipe.

*“CC is a fantastic product for a quick and easy method of weed suppression for our project. We had programmed 10 days to do the install of the canvas and it took a team of 2 just 4 days to install.”*

**Paul Curran  
Site Agent  
JN Bentley**