Plan/document detailing where the injection is to take place on site
The attached treatment plan details the locations of our injection points (shown as the numbered green circles on the plan), 52 locations at approx 0.5m centres around the perimeter of the property.

How it will take place

In summary, the works comprise drilling down through the foundation of the property, if this is an issue then we can angle the injections in under the foundation and avoid drilling through the foundation. We then install our 12mm diameter injection tubes to the required depths, these tubes are vibrated to the required depth, in this instance the injection tube will be installed to 4.7m below ground level and a second tube installed 200mm below the base of the foundation.

Technical details of the system

During the injection works we monitor the property using a series lasers and sensors that are able to detect less than 0.5mm of movement, once the sensors record a reaction the injection at that level is stopped and the team move the next level. To reduce the amount of holes to be drilled and to ensure full coverage of the soils we will extract the tube form 4.7m and inject at every 0.5m as we extract the tube, until we at at 1.2m below ground level, we then carry out a final injection at the shallow level, this is done a separate injection as it is not uncommon to find that the soils directly below the foundation to be of a different composition than the deeper soils, this additional tube allows us to adjust the material type and volume if needed to enusre we achieve full stability with our injection works. Upon completion of the works we remove all the injection tubes from the ground and remove all waste from the site.

The material we inject is a two part closed cell polyurethane, the mixing of the materials is all controlled by the pumps on our specialist injection unit and all our materials are pumped at a ratio of 1:1 so it is very easy to ensure that the materials are pumping and mixing correctly. Before we start any injection works the team undertake a test of the reaction of the materials to ensure that they are forming correctly and are within our predetermined parameters for each material.

Written statement of measures to protect the building during the work

In addition to the monitoring detailed above we will also protect the walls in the areas we are working using plastic sheeting, the floor coverings in any internal areas will be protected with flooring protectors and during the injection process the gun and the top of the injection tube will be covered with a protective bag to catch any material that is released as we disconnect the gun from the injection tube. if you have any specific measures that you would like us to include please let me know and we will include this when we complete the works.


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SAVING ONE PROPERTY AT A TIME
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