

## Continuum **Asbestos Remediation** solution

### The **elimination of asbestos** from soil

Asbestos, as we all know, has been a major problem for many years. Until now it has been almost impossible to remediate land previously contaminated by the material.

Now a new and proven solution for the effective clean-up of asbestos contamination on land is available from Continuum.

With over 30 years' experience of dealing with asbestos, our technical team in our partner company Alzure/Zelex have developed a range of cutting-edge solutions for the removal of the main types of asbestos from soil or other materials.



All known types of asbestos can be treated and, in some cases, almost completely eliminated.

Chrysotile, for instance can be treated and reduced to non-hazardous levels even when in concentrations in excess of 15%.

Amosite and other common types of asbestos can also be reduced to non-hazardous levels and in most cases soil can be rendered safe in-situ thereby eliminating the need for expensive 'dig & dump' hazard reduction processes.

Treatment is effective against all six of the regulated minerals classed as asbestos: chrysotile (white asbestos), amosite (brown asbestos), crocidolite (blue asbestos or riebeckite), anthophyllite, tremolite, and actinolite.

Chrysotile accounts for up to 90 to 95 percent of asbestos applications and can



be found in a wide range of materials used for building including cement, insulation materials and roofing.

Amosite and crocidolite have also had widespread commercial use.

Tremolite has also been used commercially on a smaller scale but today is more often found as a contaminant with other types of

asbestos, as are anthophyllite and actinolite.

Asbestos cement products, including those made under the trade name 'transite', are usually found in the form of a composite fibre cement material. They were used widely in wallboard, siding and roofing materials for over half a century and will contain up to 50% asbestos.



Products made from asbestos cement or transite can also be processed and rendered non-hazardous during the demolition of buildings or other installations that contain asbestos materials.

After the demolition phase is completed, the soil on site is commonly contaminated with asbestos in the form of powder or loose asbestos fibres.

The site contamination is rarely uniform in its' spread and is most frequently characterised by low levels of surface contamination with hot-spots caused through either the cutting of asbestos products on the site or from the breakage of asbestos products either prior to or during the demolition process.

The treatment of asbestos contamination in soil is straightforward and involves a two stage process.

Firstly the soil is dampened by wetting with either water, or in the case of amosite or other hydrophobic asbestos types, a proprietary wetting agent that enables the asbestos fibres to absorb fluid. The wetting agent is then allowed to penetrate to the required depth.

Once the wetting phase is completed a precisely tailored remediation mixture is churned into the soil.

Depending on the surface temperature and the rate of evaporation the surface may need to be sprayed with wetting agent or water during the remediation and curing period to ensure that the asbestos and the remediation mixture are properly mixed and do not dry out before the process is complete. Dampening will also prevent fibres becoming airborne.

Should soil conditions require it or if there are other undesirable contaminants in the soil other than asbestos, the remediation mixture may be augmented with a bio-enhancement component similar to the ones used in our agricultural products.

All components are organic and leave no toxins or harmful residues post the application.

Within 48 hours the remediation process would be complete under normal conditions and the soil ready for post remediation testing.

Laboratory results and tests may be supplied when appropriate.

## The benefits of the Continuum **Asbestos Remediation** solution

- All known forms of asbestos can be treated and mainly eliminated.
- Applied in-situ saving huge amounts of time and cost in remediating the contaminated land.
- Remediation components are all organic and non-toxic using only natural material.
- Fast remediation of land normally within 48 hours of application.
- Cost effective solution.

### More information

For more information as to how the how our Asbestos Remediation solution can work effectively for you please contact Continuum at [info@continuum.li](mailto:info@continuum.li)