



Environmental Comparisons MUDD-DRY™ VS Cement

Are you currently using cement to solidify your liquid waste?

Did you know that our MF003 Solidification Reagent is a more cost-effective solution that's better for the environment?

Here is a visual comparison of cement against MuDD-Dry



Environmental impact of cement VS MUDD-DRY™

- Cement contains hexavalent chromium which is a genotoxic carcinogen.
- Most muds treated with cement significantly raise the pH requiring the material to be disposed at a specialist location.
- Cement adds more weight to the waste – therefore more cost to transport and handle.
- The production of cement is very energy intensive and releases a lot of carbon dioxide into the environment contributing to global warming (4-8% of annual production); production of one tonne of cement creates 780 kg of carbon dioxide .
- Cement dust can be a dangerous source of air pollution.
- Cement must be handled with caution wearing appropriate PPE as it is very alkaline.
- Cement increases carbon dioxide emissions from having more trucks on road to transport treated waste + reagent
- Cement can cause eye, skin, and respiratory irritation that can lead to silicosis
- Cement creates a hard, monolithic finish that can be hard to work with
- No potential reuse
- Cement can Impact biodiversity of surrounding fauna (all species)

Cost Comparisons - MUDD-DRY™ VS Cement

Raw Material Costs

CEMENT = £0.17/kg / MuDD-Dry = £2.80/kg

However...

If you treat 100 cubic metres at 1% of MuDD-Dry it will require 1000kg of product at a cost of £2,800 + £75 Shipping cost of MuDD-Dry to site.

Compared to...

If you treat 100 Cubic meters at 20% with cement it will require 20,000 kg of product at a cost of £3,400 + £350 Shipping of Cement to site.

Disposal Costs

Cost of preparing 100 cubic meters of waste product for disposal with MF003 is £3,325 = £32.92/tonne ex works site.

Compared to...

Cost of preparing same amount of the product for disposal with Cement is £4,525.00 = £37.70/tonne ex works site.

Cost of Resources

MF003 is significantly quicker to react than cement, solidifying within 20-30 minutes. It is also easier for handling, storage and transporting.

MF003 can solidify 10 tonnes per hour based on 1 man and 1 digger.

Compared to...

Cement can solidify 20 tonnes per day using the same resources resulting in 50% higher costs whilst utilising much more space.