

1/2 Stone Dome -- \$300 Geopolymer Earthbag Dome

This 257 sq. ft. (interior) \$300 earthbag dome home provides safe, decent, affordable shelter. It is owner built and can be expanded later with a bit of pre-planning to create larger structures. The Stone Dome is made with geopolymer cast stone.

PolyPavement Stabilizer

- Converts soil to solid pavement
- Stabilizes soil in walls and floors
- Non-toxic, natural ingredients
- No VOCs
- No protective clothing required
- Recyclable
- Competing brands: Terrazyme, Perma-zyme, Roadbond EN1, Anyways

Solution

There's a growing body of evidence that indicates the ancients built pyramids, temples, statues and other objects out of manmade geopolymer cast stone as documented by Professor Joseph Davidovits and other researchers at the Geopolymer Institute. I've been investigating the potential of using geopolymer cast stone as a low cost, durable fill material in earthbag houses and reporting my findings on our Earthbag Building Blog.

The basic process is quite simple. The ancients used limestone, kaolin clay, sodium carbonate, lime and water to make cast stone in situ. (See the excellent video in the above link.) Now the process is even easier because the basic ingredients (sodium carbonate and lime) can be purchased off the shelf and mixed with limestone and water. Scientists also have shown how all the necessary materials can be obtained from fly ash, slag from

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Creative's profile



OwenGeiger **PRO**

Creative's top 5 skills

Architecture