

Nanomaterials

JBS Group of Companies are based in the USA and UK. We have a nanotechnology division specializing in the commercialization of a wide range of Nanoparticles and innovative 5th dimensional technologies.

One interesting element to materials on a Nano scale, contrary to popular belief, is that size really does matter.

When familiar materials are reduced to Nano proportion's they begin to develop odd properties. For example, plastics can conduct electricity, gold particles can appear red or green and solids can turn into liquids almost spontaneously at room temperature.

At the Nano scale, substances may behave differently or better compared to the same substances at macro sizes. Substances can become super-elastic, physically stronger or weaker, able to cope with vast changes in temperature and pressure and become more chemically reactive.



Nano Particles in Cement

Using nano additives will reduce manufacturing cost of cement, nano defeats multiple criteria in singular products. Increases ease of use for end user.

Benefits

Increase and retain product P.S.F pressure over longer life span.

Reduce product weight by 10% to 30%.

Resist oil and chemical spills. (Oils & chemicals are cleaned up with plain water as cement remains hydrophobic).

25% overall reduction in maintenance.

Re-bar oxidizes 20% - 50% less over cement life span.

New product will prevent or contain EPA contamination due to cement not absorbing oil and chemicals.

Nano additive makes a chemical and acid barrier so soil does not contaminate soil.

50% more graffiti proof qualities.

Nano cement product can be used for commercial and residential radiant heating with no additional material, just new cement and a low voltage system. Nano cement will cost end user 20% to 40% less to heat structure.

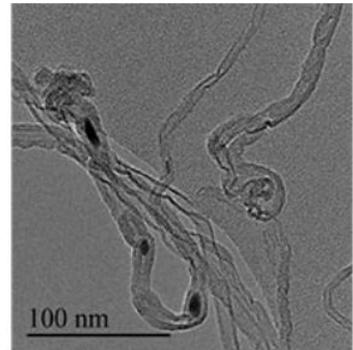
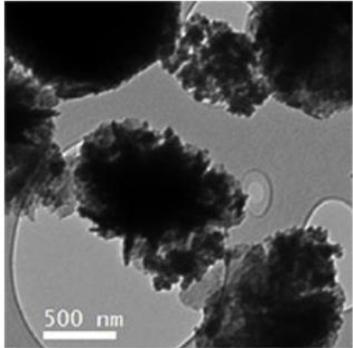
Delivering safe Nano solutions on a global scale with over two decades of R&D in the field of nano technologies.

Patented solutions.

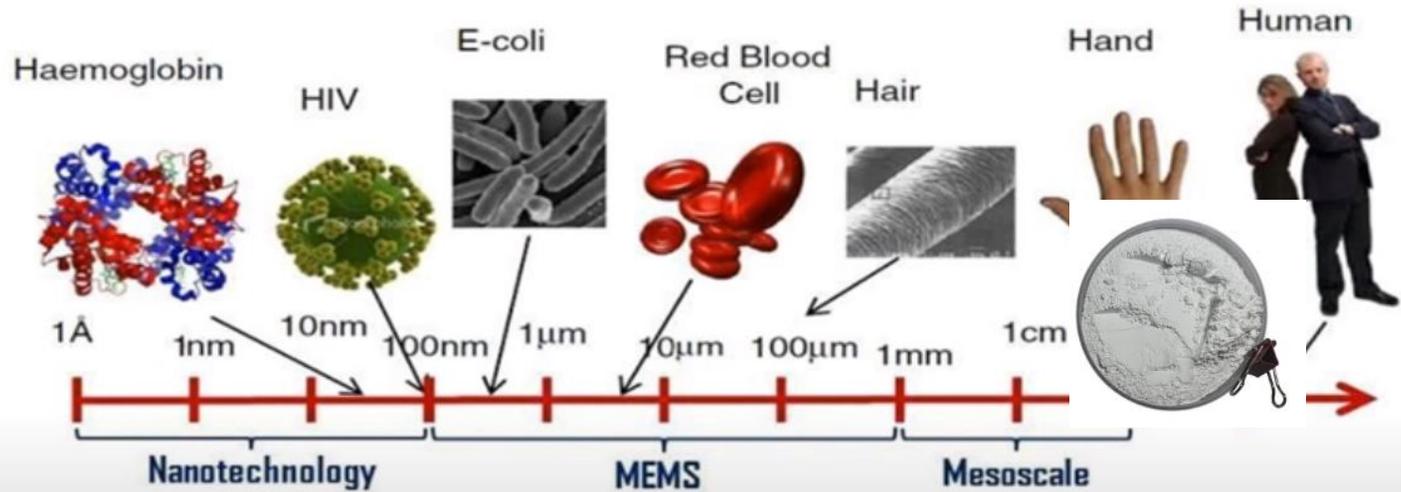
We also design customized solutions based on the individual need.

JBS patented processes make nano technologies economical, effective and accessible to a wide range of industries.





What are nanomaterials?



- 1-100 nm in at least one dimension
- Comparable to molecular scale

Nano coatings are applied by spraying or dipping and adhere to various surfaces such as glass, metals and various alloys, copper and stainless steel, marble and stone slabs, ceramics and tiles, textiles and plastics.