

05/03/2015

YOU NEED:

- Corn starch
- Tonic water (with guanine)
- A spoon
- UV light
- A bow

PROCEEDING:

Put 100 g of corn starch in the bow and then slow pour the tonic water while mixing.

You will get to point where the fluid looks like liquid but when you hit it with the spoon it gets solid.

Turn off the lights, turn on the UV light and have fun!



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WHY DOES IT HAPPEN?

Fluids have a property called viscosity that links the fluid speed gradient to the distance from a solid body, in accordance with the first Newton's law. Some fluids don't follow this rule under shear and have a period in which they behave in an unpredictable way.

This is the case of water and starch: under an initial shear, this fluid behaves like a solid for a while, coming back to liquid after some time.

Combining this property with the UV luminescence of quinine contained in tonic water, the result looks like a glowing mud. And you will enjoy it for sure!

Credits

http://www.youtube.com/watch?v=_0J4dRqg7CE